

**BEFORE THE  
PUBLIC SERVICE COMMISSION OF  
SOUTH CAROLINA**

**DOCKET NO. 2020-3-E**

In the Matter of:	)	
Annual Review of Base Rates	)	
for Fuel Costs of	)	<b>DIRECT TESTIMONY OF</b>
Duke Energy Carolinas, LLC, Decreasing	)	<b>KIMBERLY D. MCGEE FOR DUKE</b>
Residential and Non-Residential Rates	)	<b>ENERGY CAROLINAS, LLC</b>

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1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is Kimberly D. McGee, and my business address is 550 South Tryon Street,  
3 Charlotte, North Carolina.

4 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

5 A. I am a Rates Manager supporting both Duke Energy Carolinas, LLC (“DEC” or the  
6 “Company”) and Duke Energy Progress, LLC (“DEP”) (collectively, the “Companies”).

7 **Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND**  
8 **PROFESSIONAL EXPERIENCE.**

9 A. I graduated from the University of North Carolina at Charlotte with a Bachelor of Science  
10 degree in Accountancy. I am a certified public accountant licensed in the State of North  
11 Carolina. I began my career in 1989 with Deloitte and Touche, LLP as a staff auditor. In  
12 1992, I began working with DEC (formerly known as Duke Power Company) as a staff  
13 accountant and have held a variety of positions in the finance organization. From 1997  
14 until 2009, I worked for Wachovia Bank (now known as Wells Fargo) in a variety of  
15 finance and regulatory positions. I rejoined DEC in January 2009 as a Lead Accountant in  
16 Financial Reporting. I joined the Rates Department in 2011 as Manager, Rates and  
17 Regulatory Filings.

18 **Q. HAVE YOU TESTIFIED BEFORE THIS COMMISSION IN ANY PRIOR**  
19 **PROCEEDINGS?**

20 A. Yes. I testified before the Public Service Commission of South Carolina (“Commission”)  
21 in DEC’s annual fuel and environmental cost recovery proceeding in Docket Nos. 2017-3-  
22 E, 2018-3-E and 2019-3-E.

23 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?**

1 A. The purpose of my testimony is to provide DEC's actual fuel, capacity related costs  
2 including Public Utility Regulatory Policies Act of 1978 ("PURPA") capacity,  
3 environmental, and Distributed Energy Resource Program ("DERP") cost data for June 1,  
4 2019 through May 31, 2020 (the "review period"), the projected fuel, capacity related costs,  
5 environmental and DERP cost information for June 1, 2020 through September 30, 2020  
6 (the "estimated period"), and DEC's proposed fuel factors by customer class for October  
7 1, 2020 through September 30, 2021 (the "billing period"). I am providing thirteen exhibits  
8 to support my testimony.

9 **Q. WHAT IS THE SOURCE OF THE ACTUAL INFORMATION AND DATA FOR**  
10 **THE REVIEW PERIOD?**

11 A. Actual test period kilowatt hour ("kWh") generation, kWh sales, fuel-related revenues,  
12 fuel-related expenses, and DERP revenues and expenses were taken from DEC's books  
13 and records. These books, records, and reports of DEC are subject to review by the  
14 appropriate regulatory agencies in the three jurisdictions that regulate DEC's electric rates.

15 In addition, independent auditors perform an annual audit to provide assurance that,  
16 in all material respects, internal accounting controls are operating effectively and DEC's  
17 financial statements are accurate.

18 **Q. DOES DEC PURCHASE POWER AND HOW ARE THESE COSTS RECORDED?**

19 A. Yes. The Company continuously evaluates purchasing power if it can be reliably procured  
20 and delivered at a price that is less than the variable cost of DEC's generation. In  
21 accordance with S.C. Code Ann. § 58-27-865(A), DEC recovers from its South Carolina  
22 retail customers an amount that is the lower of the purchase price or DEC's avoided  
23 variable cost for generating an equivalent amount of power for its economy purchases. The

1 Company also engages in economy purchases (and economy sales) with DEP as a result of  
2 the Joint Dispatch Agreement.

3 The Company also purchases power from certain suppliers that are treated as firm  
4 generation capacity purchases. In accordance with S.C. Code Ann. § 58-27-865(A)(2)(a),  
5 all amounts paid to these suppliers are recorded as recoverable fuel costs with the exception  
6 of capacity charges.

7 Finally, the Company routinely purchases power from qualifying facilities under  
8 PURPA. According to Act 236, set forth in S.C. Code Ann. § 58-27-865(A), the avoided  
9 cost payments for such purchases are included in fuel costs recoverable from South  
10 Carolina retail customers

11 **Q. PLEASE EXPLAIN MCGEE EXHIBIT NO. 1.**

12 A. McGee Exhibit No. 1 is a summary of DEC's recommended fuel rate components for the  
13 billing period. The components are: (1) base fuel costs, (2) capacity-related costs, (3)  
14 DERP avoided costs, (4) variable environmental costs, and (5) DERP incremental costs.  
15 These fuel rate components are supported by McGee Exhibit Nos. 2 through 13 and  
16 individually discussed further in my testimony.

17 The following table shows the rates and monthly charges proposed by the Company  
18 in this proceeding as reflected in McGee Exhibit No. 1. The DERP incremental cost  
19 component is computed as a dollar amount per customer account since these amounts are  
20 subject to per-account cost caps established by Act 236. All other fuel components are  
21 computed as a rate per kWh.

			Customer Class		
			Cents / kWh		
			General /		
Line No.	Description	Reference	Residential	Lighting	Industrial
Base Fuel Costs					
1	Base Fuel Cost Component Under / (Over) at September 2020	Exhibit 2 Page 2	(0.0881)	(0.0881)	(0.0881)
2	Base Fuel Cost Component Projected Billing Period	Exhibit 3	1.5906	1.5906	1.5906
3	Total Base Fuel Cost Component	Line 1 + Line 2	1.5025	1.5025	1.5025
Capacity Related Costs					
			Cents / kWh		
4	PURPA Purchased Power Component Under / (Over) at September 2020	Exhibit 6 Page 2, 4, 6	(0.0160)	0.0123	0.0086
5	Capacity Related Cost Component Projected Billing Period	Exhibit 7	0.0996	0.0787	0.0571
6	Total Capacity Related Cost Component	Line 4 + Line 5	0.0836	0.0910	0.0657
Distributed Energy Resource Program Avoided Costs					
			Cents / kWh		
7	DERP Avoided Costs Component Under / (Over) at September 2020	Exhibit 12 Page 2,4,6	(0.0012)	(0.0003)	(0.0002)
8	DERP Avoided Costs Component Projected Billing Period	Exhibit 13	0.0046	0.0036	0.0026
9	Total DERP Avoided Costs Component	Line 7 + Line 8	0.0034	0.0033	0.0024
Environmental Costs					
			Cents / kWh		
10	Environmental Component Under / (Over) at September 2020	Exhibit 4 Page 2, 4, 6	(0.0163)	(0.0015)	(0.0008)
11	Environmental Component Projected Billing Period	Exhibit 5	0.0370	0.0293	0.0212
12	Total Environmental Component	Line 10 + 11	0.0207	0.0278	0.0204
13	Total Fuel Billing Factors	Sum Line 3 + Line 6 + Line 9 + Line 12	1.6102	1.6246	1.5910

Distributed Energy Resource Program Incremental Cost per Account					
			Residential	General Service	Industrial
DERP Incremental Under / (Over) at September 2020					
14	Annual Charge / (Credit)	Exhibit 9	\$ (2.19)	\$ (9.99)	\$ (532.72)
15	Monthly Charge / (Credit)	Exhibit 9	\$ (0.18)	\$ (0.83)	\$ (44.39)
DERP Incremental Projected Billing Period					
16	Annual Charge	Exhibit 11	\$ 9.81	\$ 44.81	\$ 2,388.29
17	Monthly Charge	Exhibit 11	\$ 0.82	\$ 3.73	\$ 199.02
18	Total DERP Annual Charge - excluding GRT	Line 14 + Line 16	\$ 7.62	\$ 34.83	\$ 1,200.00
19	Total DERP Monthly Charge - excluding GRT	Line 15 + Line 17	\$ 0.64	\$ 2.90	\$ 100.00
20	Total DERP Annual Charge per account CAP		\$ 12.00	\$ 120.00	\$ 1,200.00
21	Total DERP Annual Charge - including GRT	Line 18 / (1-Tax Rate)	\$ 7.66	\$ 35.02	\$ 1,200.00
22	Total DERP Monthly Charge - including GRT	Line 19 / (1-Tax Rate)	\$ 0.64	\$ 2.92	\$ 100.00
Totals may not sum due to rounding					

Act 236 requires that capacity related costs and avoided costs of distributed energy resource programs be tracked separately, allocated and recovered among customer classes using the same method that is used to allocate and recover variable environmental costs.

In addition, McGee Exhibit No. 1 includes the billing period per-account charge per month of \$0.64, \$2.92 and \$100.00, including Gross Receipts Tax ("GRT"), for South Carolina residential, general service, and industrial customers, respectively. The monthly

DERP incremental per-account charge recovers 100% of the DERP incremental costs, in accordance with S.C. Code Ann. § 58-27-865(A)(1). Act 236 requires that the incremental costs of DERP be allocated among customer classes using the same method that is used to allocate variable environmental costs.

**Q. HOW DID DEC'S FUEL REVENUE BILLINGS COMPARE TO THE FUEL COSTS INCURRED DURING THE JUNE 2019 – MAY 2020 TIME PERIOD?**

A. McGee Exhibit No. 2 is a monthly comparison of fuel revenues collected from South Carolina retail customers to the actual and estimated jurisdictional fuel costs attributable to those sales. The Company currently estimates that its deferred base fuel cost balance will be an (over)-collection of approximately \$(18.9) million at September 30, 2020.

**Q. PLEASE EXPLAIN MCGEE EXHIBIT NO. 3.**

A. McGee Exhibit No. 3 presents DEC's proposed base fuel rate of 1.5906¢/kWh for the billing period to recover South Carolina's retail share of approximately \$1.4 billion of projected system fuel expense. The South Carolina retail share of approximately \$341 million incorporates net metering avoided fuel benefits assigned fully to SC retail customers.

The fuel forecast supporting the projected fuel cost was generated by an hourly dispatch model that considers the latest forecasted fuel prices, outages at the generating plants based on planned maintenance and refueling schedules, forced outages based on historical trends, generating unit performance parameters, and expected market conditions associated with power purchase and off-system sales opportunities. In addition, the forecasting model reflects the joint dispatch of the combined power supply resources of the Companies.

1 **Q. PLEASE PROVIDE A STATUS UPDATE OF ENVIRONMENTAL COST**  
2 **COLLECTION.**

3 A. During the review period, DEC recovered variable environmental costs and the costs of  
4 emission allowances through the environmental component of the fuel rate. Environmental  
5 costs allocated to the South Carolina retail jurisdiction during the review period were  
6 approximately \$5.3 million, as shown by month on McGee Exhibit No. 4. The Company  
7 currently estimates that its deferred environmental cost balance will be an approximate  
8 (over)-collection of \$(1.2) million at September 30, 2020.

9 **Q. HAVE YOU PROVIDED A FORECAST OF ENVIRONMENTAL COSTS?**

10 A. Yes, McGee Exhibit No. 5 presents DEC's estimated system environmental costs for the  
11 billing period of approximately \$24.9 million. The South Carolina retail portion is  
12 projected to be approximately \$6.1 million.

13 **Q. PLEASE DESCRIBE EMISSION-REDUCING CHEMICALS THAT DEC**  
14 **INCLUDED IN THE PROPOSED FUEL RATE IN THIS FILING.**

15 A. As Company witness Immel explains more specifically in his testimony, DEC uses  
16 emission-reducing chemicals at its fossil/hydro plants to help it provide low cost, reliable  
17 electric generation for its customers while also complying with state and federal  
18 environmental control obligations. As a result, DEC has included the cost of magnesium  
19 hydroxide, calcium carbonate, ammonia, trona, urea, quicklime, limestone, lime and  
20 hydrated lime incurred during the review period in its fuel cost recovery application.  
21 Mercury and Air Toxics Standards chemicals that DEC may use in the future to reduce  
22 emissions include, but may not be limited to, activated carbon, mercury oxidation  
23 chemicals, and mercury re-emission prevention chemicals.

1   **Q.   HOW DID DEC ALLOCATE ENVIRONMENTAL COSTS?**

2   A.   DEC allocated the South Carolina retail portion of environmental cost to Residential,  
3       General Service/Lighting, and Industrial customer classes based upon the firm coincident  
4       peak demand of each class for the prior year. The 2018 firm coincident peak demand was  
5       used to allocate costs for the period June 2019 – December 2019, and the 2019 firm  
6       coincident peak demand was used to allocate costs for the period January 2020 – September  
7       2021. This allocation is shown on McGee Exhibit Nos. 4 and 5.

8               Allocations were consistent with the methodology approved by this Commission in  
9       Order No. 2007-674, issued in DEC's 2007 fuel review proceeding. This methodology has  
10      been consistently used in each fuel case since the issuance of the 2007 Order.

11             Because final calendar year 2019 firm coincident peak demand data did not become  
12      available until after the February 2020 Monthly Fuel Report was filed, an adjustment to  
13      the allocation of capacity related costs between the customer classes is reflected in the  
14      month of March 2020, applicable to January and February 2020, and the month of April  
15      2020, applicable to March 2020.

16   **Q.   PLEASE PROVIDE A STATUS UPDATE OF CAPACITY-RELATED COSTS**  
17   **COLLECTION.**

18   A.   During the review period, DEC recovered capacity related costs, including PURPA  
19       purchased power capacity costs and natural gas transportation (pipeline reservation/lease  
20       costs) and storage costs through the capacity-related component of the fuel rate. Capacity  
21       related costs allocated to the South Carolina retail jurisdiction during the review period  
22       were approximately \$19.1 million, as shown on McGee Exhibit No. 6. The Company



1 currently estimates that its cumulative capacity related cost balance will be an approximate  
2 under-recovery of \$408 thousand at September 30, 2020.

3 **Q. HAVE YOU PROVIDED A FORECAST OF CAPACITY-RELATED COSTS?**

4 A. Yes. McGee Exhibit No. 7 presents DEC's projected system capacity-related costs,  
5 including PURPA purchased power capacity costs, natural gas transportation (pipeline  
6 reservation/ lease costs) and natural gas storage costs, for the billing period of  
7 approximately \$66.5 million. The South Carolina retail portion is projected to be  
8 approximately \$16.4 million.

9 **Q. HOW DID DEC ALLOCATE CAPACITY RELATED COSTS?**

10 A. DEC allocated the South Carolina retail portion of capacity-related costs to Residential,  
11 General Service/Lighting, and Industrial customer classes based upon the firm coincident  
12 peak demand of each class for the prior year. The 2018 firm coincident peak demand was  
13 used to allocate costs for the period of June 2019 - December 2019 and the 2019 firm  
14 coincident peak demand was used to allocate costs for the period of January 2020 –  
15 September 2021. This allocation is shown on McGee Exhibit Nos. 6 and 7.

16 Because final calendar year 2019 firm coincident peak demand data did not become  
17 available until after the February 2020 Monthly Fuel Report was filed, an adjustment to  
18 the allocation of capacity related costs between the customer classes is reflected in the  
19 month of March 2020, applicable to January and February 2020, and the month of April  
20 2020, applicable to March 2020.

21 Allocations were consistent with the methodology approved by this Commission in  
22 Order No. 2014-787, issued in DEC's 2014 fuel review proceeding. This methodology has  
23 been consistently used in each fuel case since the issuance of the 2014 Order.

1 **Q. WHAT DERP INCREMENTAL COSTS ARE INCLUDED IN THIS FUEL**  
2 **FILING?**

3 A. S.C. Code Ann. § 58-39-140(A) defines “incremental costs” as all reasonable and prudent  
4 costs incurred by an electrical utility to implement a distributed energy resource program.  
5 This filing includes the following categories of incremental costs:

- 6 • Costs associated with purchase power agreements (“PPA”) in excess of the  
7 Company’s avoided cost rate, including those serving the purchased power needs  
8 of the Shared Solar program;
- 9 • The DERP net energy metering (“NEM”) Incentive, which is a credit available to  
10 eligible NEM customer-generators, approved in Docket No. 2014-246-E;
- 11 • Amortization of solar rebate balances given to South Carolina’s residential and non-  
12 residential customers to invest in or lease distributed generation;
- 13 • Carrying costs on unamortized solar rebate balances;
- 14 • An incentive utilized to lower the subscription charge customers pay to participate  
15 in the Shared Solar program;
- 16 • Avoided capacity costs and administrative costs associated with NEM, recoverable  
17 as an incremental cost;
- 18 • General and administrative costs, which include the cost of developing and  
19 implementing programs, incremental labor, and additional revenue-grade meters;  
20 and
- 21 • Carrying costs on under-collected balances due to per-account cost caps.

22 **Q. PLEASE PROVIDE A STATUS UPDATE OF DERP INCREMENTAL COSTS**  
23 **COLLECTION.**

1 A. During the review period, DEC recovered DERP incremental costs, offset by any revenues  
2 collected from program participants, through the DERP incremental cost per account  
3 charge. Review period DERP incremental costs were approximately \$6.3 million, as shown  
4 on McGee Exhibit No. 8. The cumulative DERP incremental cost balance will be an (over)-  
5 collection balance of \$(2.9) million at May 31, 2020. The Company currently estimates  
6 that the cumulative DERP incremental cost balance will be an (over)-collection balance of  
7 approximately \$(2.7) million at September 30, 2020.

8 **Q. HOW DID DEC ALLOCATE DERP INCREMENTAL COSTS?**

9 A. DEC allocated 100% of DERP incremental costs to South Carolina residential,  
10 Commercial (General Service/Lighting), and Industrial customer classes based upon the  
11 firm coincident peak demand of each class for the prior year.

12 One exception to this approach is the allocation of the avoided capacity costs  
13 associated with NEM that is included in the DERP incremental costs. This particular  
14 incremental cost has been allocated to the South Carolina retail jurisdiction based on its  
15 pro rata share of system peak demand, rather than 100%. This DERP incremental cost is  
16 related to system generation supply resources. Costs and benefits allocated with the system  
17 generation supply resources are traditionally allocated among all of the Company's rate  
18 jurisdictions since such generation supply resources are operated as a portfolio to serve its  
19 native load customers in all rate jurisdictions.

20 The total cumulative (over)/ under balance at September 30, 2020 was allocated  
21 using the 2019 firm coincident peak demand. The estimated DERP incremental cost  
22 balance at September 2021 was also allocated to the customer classes based on the 2019  
23 firm coincident peak demand. This allocation is shown on McGee Exhibit No. 9 and 11.

1 This allocation methodology was approved in Order No. 2015-505 in Docket 2015-55-E  
2 and has been consistently applied since the issuance of the Order.

3 Because the South Carolina retail share of peak demand increased from 22.1% to  
4 23.3% between calendar years 2018 and 2019, respectively, and because calendar year  
5 2019 firm coincident peak demand data did not become available until after the February  
6 2020 Monthly Fuel Report was filed, an adjustment of \$705 to the South Carolina retail  
7 share of avoided capacity costs associated with NEM is reflected in the month of March  
8 2020 on Exhibit 8, applicable to January and February 2020.

9 **Q. PLEASE EXPLAIN WHAT IS SHOWN ON MCGEE EXHIBIT NO. 9.**

10 **A.** McGee Exhibit No. 9 establishes the monthly charges by customer class for incremental  
11 DERP (over)/under recovery. Each class's allocated portion of the estimated cumulative  
12 Incremental (over)/under recovery balance at September 30, 2020 was divided by the  
13 projected number of accounts subject to the DERP per-account charge for each class. This  
14 calculation results in an annual dollar per-account charge which is billed as a separate fixed  
15 monthly component of the fuel factor by customer class. DEC proposes the per-account  
16 monthly decrement for (over)-recovery of \$(0.18), \$(0.83) and \$(44.39) for South Carolina  
17 Residential, Commercial (General Service/Lighting) and Industrial customers, excluding  
18 GRT.

19 **Q. HAVE YOU PROVIDED A FORECAST OF DERP INCREMENTAL COSTS?**

20 **A.** McGee Exhibit No. 10 itemizes DEC's projected DERP incremental costs by cost type and  
21 month for the billing period. Total DERP incremental costs are projected to be  
22 approximately \$12.1 million.

23 **Q. PLEASE EXPLAIN MCGEE EXHIBIT NO. 11.**

1 A. McGee Exhibit No. 11 presents the calculation of the prospective per-account charge by  
2 customer class in order for DEC to recover DERP projected incremental costs. Each class's  
3 allocated portion of the total DERP projected cost balance was divided by the projected  
4 number of accounts subject to the DERP per-account charge for each class. This calculation  
5 results in an annual dollar per-account charge which is billed monthly as part of the fixed  
6 monthly component of the fuel factor by customer class. DEC has estimated per-account  
7 charges per month of \$0.82, \$3.73 and \$199.02 for South Carolina Residential,  
8 Commercial and Industrial customers, excluding GRT. Proposed rates are subject to per-  
9 account cost caps.

10 **Q. HOW DOES THE COMPANY TREAT UNDER-COLLECTED DERP**  
11 **INCREMENTAL COSTS RESULTING FROM REACHING THE PER ACCOUNT**  
12 **COST CAP?**

13 A. Consistent with Docket No. 2015-55-E, Order No. 2015-515, the Company reallocates  
14 under-collected DERP incremental costs in excess of the per-account cost caps among all  
15 customer classes with carrying costs applied at the three-year treasury rate plus 65 basis  
16 points. If applicable, interest calculated on the monthly under-collected balance is shown  
17 as a separate incremental cost on McGee Exhibits No. 8 and 10.

18 **Q. HAVE ANY CUSTOMER CLASSES REACHED THE DERP PER-ACCOUNT**  
19 **CAP IN THIS FILING?**

20 A. Yes, the industrial customers reached the per-account cap in this filing. As a result, for the  
21 billing period, proposed DERP incremental rates are limited to a monthly per-account  
22 charge of \$100.00 for Industrial customers, including GRT.

23 **Q. WHAT DERP AVOIDED COSTS ARE INCLUDED IN THIS FILING?**

1 A. Avoided cost generally refers to the energy and capacity cost the utility avoids when buying  
2 power from another entity rather than generating the power itself. Under PURPA,  
3 payments made to qualifying facilities for power are based on avoided cost rates. In the  
4 DERP context, S.C. Code Ann. §58-39-140(A)(1) states that “avoided cost”, as defined for  
5 the purpose of differentiating DERP program costs between incremental costs and avoided  
6 costs includes “all costs paid under avoided cost rates, or negotiated rates pursuant to  
7 PURPA, which ever is lower.” In S.C. Code Ann. § 58-39-120(B), avoided costs are  
8 further defined, indicating that they are to be rates most recently approved by the  
9 Commission, or negotiated pursuant to PURPA. Any amounts above avoided cost or above  
10 negotiated rates pursuant to PURPA from DERP third party purchases are treated as DERP  
11 incremental costs in this filing.

12 **Q. PLEASE PROVIDE A STATUS UPDATE OF DERP AVOIDED COSTS**  
13 **COLLECTIONS.**

14 A. During the review period, DEC recovered the DERP avoided costs of third party purchases,  
15 including the portion serving the purchased power needs of the Shared Solar program,  
16 through the DERP avoided cost component of the fuel rate. As shown on McGee Exhibit  
17 No. 12, system DERP avoided costs during the review period were approximately \$399  
18 thousand, of which approximately \$44 thousand has been allocated to the South Carolina  
19 retail jurisdiction. The total South Carolina retail share was allocated to the classes as  
20 described below and was divided by projected sales to arrive at a cents per kWh rate by  
21 customer class. The Company currently estimates that its South Carolina deferred DERP  
22 avoided cost balance will be an (over)-collection of approximately \$(121) thousand at  
23 September 30, 2020.

1   **Q.   HOW DID THE COMPANY ALLOCATE DERP AVOIDED COSTS?**

2   A.   DEC allocated DERP avoided costs based on the same method used by the utility to  
3       allocate and recover variable environmental costs. As such, DEC allocated the South  
4       Carolina Retail portion of DERP avoided costs to Residential, General Service/Lighting  
5       and Industrial rate classes based upon the firm coincident peak demand of each class for  
6       the prior year. The 2018 firm coincident peak demand was used to allocate costs for the  
7       period June 2019 – December 2019 and the 2019 firm coincident peak demand was used  
8       to allocate costs for the period January 2020 – September 2021.

9           Because calendar year 2019 firm coincident peak demand data did not become  
10       available until after the February 2020 Monthly Fuel Report was filed, an adjustment to  
11       the allocation of capacity related costs between the customer classes is reflected in the  
12       month of March 2020, applicable to January and February 2020, and the month of April  
13       2020, applicable to March 2020.

14           The total cost allocated to each class is divided by projected sales to arrive at a cents  
15       per kWh. This allocation is shown on McGee Exhibit No. 12 and 13.

16   **Q.   HAVE YOU PROVIDED A FORECAST OF DERP AVOIDED COSTS?**

17   A.   Yes, McGee Exhibit No. 13 provides DEC's projected system DERP avoided cost for the  
18       billing period of approximately \$3.1 million. The South Carolina retail portion is projected  
19       to be approximately \$752 thousand.

20   **Q.   ARE THERE OTHER ADJUSTMENTS TO THE EXHIBITS WHICH HAVE NOT**  
21   **BEEN EXPLAINED?**

22   A.   Yes. The month of May 2020 on Exhibit 2, page 1, includes a review period reduction of  
23       \$198,316 to remove South Carolina's share of the total delivered costs on economy

1 purchases of electric power in excess of DEC's avoided variable costs for the generation  
2 of an equivalent quantity of electric power in accordance with S.C. Code Ann. § 58-27-  
3 865(A)(2)(b) of the South Carolina fuel statute.

4 **Q. DO YOU BELIEVE DEC'S ACTUAL FUEL COSTS AND DERP COSTS**  
5 **INCURRED DURING THE PERIOD WERE REASONABLE?**

6 A. Yes. I believe the costs were reasonable and that DEC has demonstrated that it has met the  
7 criteria set forth in S.C. Code Ann. § 58-27-865. These costs also reflect DEC's continuing  
8 efforts to maintain reliable service and an economical generation mix, thereby minimizing  
9 the total cost of providing service to DEC's South Carolina retail customers.

10 **Q. DO YOU BELIEVE DEC'S ACTUAL DERP COSTS INCURRED DURING THE**  
11 **PERIOD WERE REASONABLE?**

12 A. Yes. I also believe that the DERP costs were reasonable and that DEC has demonstrated  
13 that it met the criteria set forth in S.C. Code Ann. § 58-39-130(A)(2).

14 **Q. WHAT ARE THE KEY DRIVERS IMPACTING THE PROPOSED FUEL**  
15 **FACTOR?**

16 A. A number of factors contribute to the change in the proposed total fuel cost factors for all  
17 customer classes. Total fuel rates projected for the billing period are decreasing primarily  
18 due to an expected over-collection of fuel costs as of September 30, 2020 included in the  
19 2020 proposed fuel rates rather than the under-collection of fuel costs reflected in existing  
20 rates. A secondary driver is decreasing commodity prices in the forecast period.

21 **Q. INCLUDING THE DERP INCREMENTAL PER ACCOUNT CHARGES, WHAT**  
22 **IS THE IMPACT TO CUSTOMERS' BILLS IF THE PROPOSED FUEL COST,**  
23 **CAPACITY RELATED COST, DERP AVOIDED COST, AND**



1        **ENVIRONMENTAL COST FACTORS ARE APPROVED BY THE**  
2        **COMMISSION?**

3        A.     The impact of all components of this filing to customers' monthly bills of a typical  
4        residential customer using 1000 kWh per month is a decrease of \$6.81, or 5.6%. The impacts  
5        for average general service, lighting and industrial customers vary by customer, but are  
6        approximately of (5.6%), (3.1%) and (9.8%), respectively.

7        **Q.     DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?**

8        A.     Yes, it does.

**McGee Exhibit 1**  
**DOCKET NO 2020-3-E**

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF TOTAL FUEL BILLING FACTORS**  
**BILLING PERIOD OCTOBER 1, 2020 TO SEPTEMBER 30, 2021**

Line No.	Description	Reference	Customer Class		
			Cents / kWh		
			Residential	General / Lighting	Industrial
Base Fuel Costs					
1	Base Fuel Cost Component Under / (Over) at September 2020	Exhibit 2 Page 2	(0.0881)	(0.0881)	(0.0881)
2	Base Fuel Cost Component Projected Billing Period	Exhibit 3	1.5906	1.5906	1.5906
3	Total Base Fuel Cost Component	Line 1 + Line 2	1.5025	1.5025	1.5025
Capacity Related Costs					
4	PURPA Purchased Power Component Under / (Over) at September 2020	Exhibit 6 Page 2, 4, 6	(0.0160)	0.0123	0.0086
5	Capacity Related Cost Component Projected Billing Period	Exhibit 7	0.0996	0.0787	0.0571
6	Total Capacity Related Cost Component	Line 4 + Line 5	0.0836	0.0910	0.0657
Distributed Energy Resource Program Avoided Costs					
7	DERP Avoided Costs Component Under / (Over) at September 2020	Exhibit 12 Page 2,4,6	(0.0012)	(0.0003)	(0.0002)
8	DERP Avoided Costs Component Projected Billing Period	Exhibit 13	0.0046	0.0036	0.0026
9	Total DERP Avoided Costs Component	Line 7 + Line 8	0.0034	0.0033	0.0024
Environmental Costs					
10	Environmental Component Under / (Over) at September 2020	Exhibit 4 Page 2, 4, 6	(0.0163)	(0.0015)	(0.0008)
11	Environmental Component Projected Billing Period	Exhibit 5	0.0370	0.0293	0.0212
12	Total Environmental Component	Line 10 + 11	0.0207	0.0278	0.0204
13	Total Fuel Billing Factors	Sum Line 3 + Line 6 + Line 9 + Line 12	1.6102	1.6246	1.5910

**Distributed Energy Resource Program Incremental Cost per Account**

			General		
			Residential	Service	Industrial
<b>DERP Incremental Under / (Over) at September 2020</b>					
14	Annual Charge / (Credit)	Exhibit 9	\$ (2.19)	\$ (9.99)	\$ (532.72)
15	Monthly Charge / (Credit)	Exhibit 9	\$ (0.18)	\$ (0.83)	\$ (44.39)
<b>DERP Incremental Projected Billing Period</b>					
16	Annual Charge	Exhibit 11	\$ 9.81	\$ 44.81	\$ 2,388.29
17	Monthly Charge	Exhibit 11	\$ 0.82	\$ 3.73	\$ 199.02
18	<b>Total DERP Annual Charge - excluding GRT</b>	Line 14 + Line 16	<b>\$ 7.62</b>	<b>\$ 34.83</b>	<b>\$ 1,200.00</b>
19	<b>Total DERP Monthly Charge - excluding GRT</b>	Line 15 + Line 17	<b>\$ 0.64</b>	<b>\$ 2.90</b>	<b>\$ 100.00</b>
20	<b>Total DERP Annual Charge per account CAP</b>		<b>\$ 12.00</b>	<b>\$ 120.00</b>	<b>\$ 1,200.00</b>
21	<b>Total DERP Annual Charge - including GRT</b>	Line 18 / (1-Tax Rate)	<b>\$ 7.66</b>	<b>\$ 35.02</b>	<b>\$ 1,200.00</b>
22	<b>Total DERP Monthly Charge - including GRT</b>	Line 19 / (1-Tax Rate)	<b>\$ 0.64</b>	<b>\$ 2.92</b>	<b>\$ 100.00</b>

Totals may not sum due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019
1	Coal		\$ 65,956,371	\$ 100,878,309	\$ 93,317,054	\$ 71,609,016	\$ 42,539,386	\$ 63,269,456
2	Gas		27,438,653	31,554,634	30,528,472	31,876,826	22,686,061	19,040,934
3	Nuclear Fuel		23,105,119	23,871,078	23,864,318	22,502,111	23,329,113	20,291,677
4	Purchased Power		17,780,979	19,619,111	18,425,500	35,459,322	29,469,193	28,634,178
5	Fuel Expense Recovered Through Intersystem Sales		(2,334,646)	(3,979,311)	(5,927,317)	(3,776,015)	(1,945,920)	(3,979,214)
6	Total Fuel Costs	Sum Lines 1 - 5	\$ 131,946,478	\$ 171,943,821	\$ 160,208,028	\$ 157,671,260	\$ 116,077,834	\$ 127,257,030
7	Eliminate Avoided Fuel Benefit of SC NEM		357,178	358,741	358,953	361,072	348,846	337,117
8	Adjusted System Fuel costs	Line 6 + Line 7	\$ 132,303,656	\$ 172,302,562	\$ 160,566,981	\$ 158,032,332	\$ 116,426,680	\$ 127,594,147
9	Total System KWH Sales		7,541,462,943	8,305,219,975	8,537,753,367	8,281,021,662	7,008,401,161	6,522,932,412
10	Eliminate NEM Solar Generation kwhs		10,992,414	11,040,529	11,047,105	11,112,256	10,731,051	10,364,604
11	Adjusted Projected System kwh Sales	Line 9 + Line 10	7,552,455,357	8,316,260,504	8,548,800,472	8,292,133,918	7,019,132,212	6,533,297,016
12	System cost ¢/kwh	Line 8 / Line 11 * 100	1.7518	2.0719	1.8782	1.9058	1.6587	1.9530
13	Actual/Projected SC Retail Sales kWh (w/solar)		1,853,845,823	2,006,467,798	2,082,064,398	2,020,390,470	1,745,407,713	1,605,281,709
14	Eliminate the NEM impact of Solar Generation kWhs		10,992,414	11,040,529	11,047,105	11,112,256	10,731,051	10,364,604
15	Adjusted Actual/Projected SC Retail Sales kWh (w/o solar)	Line 13 + Line 14	1,864,838,237	2,017,508,327	2,093,111,503	2,031,502,726	1,756,138,764	1,615,646,313
16	SC Base Fuel Costs	Line 12 * Line 15 /100	\$ 32,668,173	\$ 41,800,260	\$ 39,313,655	\$ 38,716,586	\$ 29,129,158	\$ 31,553,290
17	Assign 100% of avoided fuel benefit of SC NEM	-Line 7	(357,178)	(358,741)	(358,953)	(361,072)	(348,846)	(337,117)
18	Adjusted SC Base Fuel Costs	Line 16 + Line 17	\$ 32,310,995	\$ 41,441,519	\$ 38,954,702	\$ 38,355,514	\$ 28,780,312	\$ 31,216,173
19	Fuel Costs Collected - non capacity revenue	Company Record	\$ 36,424,362	\$ 39,423,080	\$ 40,908,401	\$ 39,696,632	\$ 35,394,695	\$ 33,965,208
20	Fuel Benefit given in SC NEM Incentive		(152,027)	(152,728)	(152,825)	(153,715)	(137,301)	(137,602)
21	Adjusted Fuel Costs Collected	Line 19 + Line 20	\$ 36,272,335	\$ 39,270,352	\$ 40,755,576	\$ 39,542,917	\$ 35,257,394	\$ 33,827,606
22	(Over)/Under Current Month	Line 18 - Line 21	\$ (3,961,340)	\$ 2,171,168	\$ (1,800,874)	\$ (1,187,403)	\$ (6,477,082)	\$ (2,611,433)
23	(Over) / Under Cumulative Balance May 2019	Prior Year Annual Filing	\$ 86,217,228	-	-	-	-	-
24	Accounting Adjustment(s)			-	-	-	-	-
25	(Over)/Under Cumulative Balance	Line22 + Line 24 + PM cumulative balance	\$ 82,255,888	\$ 84,427,057	\$ 82,626,183	\$ 81,438,780	\$ 74,961,698	\$ 72,350,265

Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
26	Coal		\$ 36,854,939	\$ 39,416,965	\$ 20,037,276	\$ 21,924,027	\$ 27,524,168	\$ 25,561,283	\$ 608,888,251
27	Gas		31,178,544	34,670,108	33,984,304	31,195,038	16,871,385	23,872,386	334,897,345
28	Nuclear Fuel		22,398,036	23,774,052	22,115,438	21,463,215	18,011,216	21,291,668	266,017,041
29	Purchased Power		27,946,742	19,996,085	21,464,254	13,658,415	15,878,078	17,423,264	265,755,122
30	Fuel Expense Recovered Through Intersystem Sales		(2,258,025)	(1,442,754)	(1,767,838)	(4,015,422)	(1,301,955)	(1,529,131)	(34,257,548)
31	Total Fuel Costs	Sum Lines 26 - 30	\$ 116,120,235	\$ 116,414,455	\$ 95,833,434	\$ 84,225,273	\$ 76,982,892	\$ 86,619,470	\$ 1,441,300,210
32	Eliminate Avoided Fuel Benefit of SC NEM		341,787	346,455	348,340	350,407	352,690	354,170	4,215,756
33	Adjusted System Fuel costs	Line 31 + Line 32	\$ 116,462,022	\$ 116,760,910	\$ 96,181,774	\$ 84,575,680	\$ 77,335,582	\$ 86,973,640	\$ 1,445,515,966
34	Total System KWH Sales (w/solar)		7,150,989,325	7,183,161,407	7,218,451,279	6,546,859,177	5,937,728,447	5,638,927,495	85,872,908,650
35	Eliminate NEM Solar Generation kwhs		10,508,031	10,651,536	10,709,483	10,773,043	10,843,178	10,888,676	129,661,906
36	Adjusted Projected System kwh Sales (w/o solar)	Line 34 + Line 35	7,161,497,356	7,193,812,943	7,229,160,762	6,557,632,220	5,948,571,625	5,649,816,171	86,002,570,556
37	System cost ¢/kwh	Line 33 / Line 36 * 100	1.6262	1.6231	1.3305	1.2897	1.3001	1.5394	
38	Actual/Projected SC Retail Sales kWh (w/solar)		1,699,148,577	1,689,507,456	1,751,773,205	1,605,890,341	1,455,867,918	1,362,977,929	20,878,623,337
39	Eliminate the NEM impact of Solar Generation kWhs		10,508,031	10,651,536	10,709,483	10,773,043	10,843,178	10,888,676	129,661,906
40	Adjusted Actual/Projected SC Retail Sales kWh (w/o solar)	Line 38 + Line 39	1,709,656,608	1,700,158,992	1,762,482,688	1,616,663,384	1,466,711,096	1,373,866,605	21,008,285,243
41	SC Base Fuel Costs	Line 37 * Line 40 /100	\$ 27,802,854	\$ 27,594,839	\$ 23,449,294	\$ 20,850,575	\$ 19,068,267	\$ 21,149,392	353,096,344
42	Assign 100% of avoided fuel benefit of SC NEM	-Line 32	(341,787)	(346,455)	(348,340)	(350,407)	(352,690)	(354,170)	(4,215,756)
43	Adjusted SC Base Fuel Costs	Line 41 + Line 42	\$ 27,461,067	\$ 27,248,384	\$ 23,100,954	\$ 20,500,168	\$ 18,715,577	\$ 20,795,222	348,880,589
44	Fuel Costs Collected - non capacity revenue	Company Records	\$ 35,964,179	\$ 35,760,115	\$ 37,078,032	\$ 33,990,275	\$ 30,814,900	\$ 28,848,791	428,268,670
45	Fuel Benefit given in SC NEM Incentive		(120,639)	(122,716)	(123,049)	(123,435)	(124,234)	(125,410)	(1,625,681)
46	Adjusted Fuel Costs Collected	Line 44 + Line 45	\$ 35,843,540	\$ 35,637,399	\$ 36,954,983	\$ 33,866,840	\$ 30,690,666	\$ 28,723,381	426,642,989
47	(Over)/Under Current Month	Line 43 - Line 46	\$ (8,382,473)	\$ (8,389,015)	\$ (13,854,029)	\$ (13,366,672)	\$ (11,975,089)	\$ (7,928,159)	\$ (77,762,400)
48	Accounting Adjustment(s)		-			(23)		(198,316)	(198,339)
49	(Over)/Under Cumulative Balance	Line47 + Line 48 + PM cumulative balance	\$ 63,967,792	\$ 55,578,777	\$ 41,724,748	\$ 28,358,053	\$ 16,382,965	\$ 8,256,489	\$ 8,256,490

Note: Totals may not add due to rounding

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY**  
**ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020**

Line No.	Description	Reference	Estimated June 2020	Estimated July 2020	Estimated August 2020	Estimated September 2020	Sixteen Months Ended September 2020
50	Coal		\$ 64,579,931	\$ 89,216,290	\$ 70,222,488	\$ 45,444,747	\$ 878,351,707
51	Gas		\$ 22,345,047	25,558,092	25,768,187	26,352,267	\$ 434,920,939
52	Nuclear Fuel		22,500,128	23,838,666	23,753,965	20,986,341	\$ 357,096,140
53	Purchased Power		16,131,181	20,351,181	19,845,658	21,174,277	\$ 343,257,420
54	Fuel Expense Recovered Through Intersystem Sales		(2,061,114)	(981,499)	(1,688,697)	(403,576)	\$ (39,392,433)
55	Total Fuel Costs	Sum of Lines 50-56	\$ 123,495,174	\$ 157,982,730	\$ 137,901,601	\$ 113,554,058	\$ 1,974,233,773
56	Eliminate Avoided Fuel Benefit of SC NEM		356,653	366,364	366,306	366,287	\$ 5,671,367
57	Adjusted System Fuel costs	Line 55 + Line 56	\$ 123,851,827	\$ 158,349,095	\$ 138,267,907	\$ 113,920,345	\$ 1,979,905,140
58	Total Projected System KWH Sales (w/solar)		6,734,780,109	7,783,263,903	8,303,520,666	7,670,294,572	116,364,767,900
59	Eliminate NEM Solar Generation kwhs		10,965,044	11,263,622	11,261,818	11,261,243	174,413,633
60	Adjusted Projected System kwh Sales(w/o solar)	Line 58 and 59	6,745,745,153	7,794,527,525	8,314,782,484	7,681,555,815	116,539,181,533
61	System cost ¢/kwh	Line 57 / Line 60 * 100	1.8360	2.0315	1.6629	1.4830	
62	Projected SC Retail Sales kWh (w/solar)		1,623,613,976	1,828,330,042	1,983,691,625	1,871,950,619	28,186,209,598
63	Eliminate NEM Solar Generation kwhs		10,965,044	11,263,622	11,261,818	11,261,243	174,413,633
64	Projected SC Retail Sales kWh (w/o solar)	Line 62 + Line 63	1,634,579,020	1,839,593,663	1,994,953,443	1,883,211,861	28,360,623,230
65	SC Base Fuel Costs	Line 64 * Line 61 / 100	\$ 30,010,858	\$ 37,372,117	\$ 33,174,414	\$ 27,928,736	\$ 481,582,468
66	Assign 100% of avoided fuel benefit of SC NEM	- Line 56	(356,653)	(366,364)	(366,306)	(366,287)	\$ (5,671,367)
67	Adjusted SC Base Fuel Costs	Line 65 + Line 66	\$ 29,654,205	\$ 37,005,752	\$ 32,808,108	\$ 27,562,449	\$ 475,911,101
68	Estimated Base Fuel Cost Collected	Line 62 * 2.1166 / 100	\$ 34,365,413	\$ 38,698,434	\$ 41,986,817	\$ 39,621,707	\$ 582,941,041
69	Fuel Benefit given in SC NEM Incentive		(125,954)	(129,833)	(129,807)	(129,799)	\$ (2,141,074)
70	Adjusted Fuel Costs Collected	Line 68 + Line 69	\$ 34,239,459	\$ 38,568,601	\$ 41,857,009	\$ 39,491,907	\$ 580,799,966
71	(Over)/Under Current Month	Line 67 - Line 70	\$ (4,585,255)	\$ (1,562,849)	\$ (9,048,901)	\$ (11,929,459)	\$ (104,888,864)
72	Accounting Adjustment(s)		-	-	-	-	(198,339)
73	(Over)/Under Cumulative Balance	PM + Sum Lines 71-72	\$ 3,671,235	\$ 2,108,386	\$ (6,940,515)	\$ (18,869,974)	\$ (18,869,974)
74	Projected SC Retail Sales kwhs (October 2020 -September 2021)	Exhibit 3					21,429,956,916
75	SC Base Fuel Rate (cents / kWh)	Line 73 / Line 74 * 100					<b>(0.0881)</b>

Note: Totals may not add due to rounding

**SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF PROJECTED BILLING PERIOD BASE FUEL COSTS BILLING FACTORS  
FOR THE 12 MONTHS OCTOBER 2020 TO SEPTEMBER 2021**

Line No.	Description	Reference	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021
1	Coal		\$ 50,852,504	\$ 45,371,762	\$ 63,327,074	\$ 93,211,296	\$ 63,408,023	\$ 42,292,290
2	Gas		22,081,485	21,436,374	22,362,147	23,183,340	21,500,372	27,338,236
3	Nuclear Fuel		18,470,947	21,234,432	24,139,729	24,429,251	21,995,996	23,494,833
4	Purchased Power		27,404,981	12,959,058	8,150,650	14,315,888	11,908,658	10,579,135
5	Fuel Expense Recovered Through Intersystem Sales		(39,726)	(2,317,826)	(6,183,874)	(4,852,600)	(3,170,802)	(4,456,268)
6	Total Fuel Costs	Sum Lines 1 - 5	\$ 118,770,191	\$ 98,683,800	\$ 111,795,725	\$ 150,287,175	\$ 115,642,248	\$ 99,248,226
7	Eliminate Avoided Fuel Benefit of SC NEM		297,882	297,802	297,723	300,659	300,600	300,543
8	Adjusted System Fuel costs	Line 6 + Line 7	\$ 119,068,073	\$ 98,981,602	\$ 112,093,449	\$ 150,587,834	\$ 115,942,848	\$ 99,548,768
9	Total Projected System Sales kwhs (w/solar)		6,317,647,341	6,341,288,175	7,127,718,755	7,877,688,675	7,824,525,375	7,210,992,485
10	Eliminate NEM Solar Generation kwhs		11,263,741	11,260,774	11,257,852	11,368,872	11,366,693	11,364,551
11	Adjusted Projected System kwh Sales(w/o solar)	Line 9 + Line 10	6,328,911,082	6,352,548,949	7,138,976,606	7,889,057,547	7,835,892,068	7,222,357,036
12	System Cost per kwh (¢/kwh)	Line 8 / Line 11 * 100	1.8813	1.5581	1.5702	1.9088	1.4796	1.3783
13	Adjusted Projected SC Retail Sales kwhs(w/o solar)		1,584,412,440	1,579,560,575	1,737,387,800	1,899,173,223	1,913,568,356	1,789,111,320
14	SC Base Fuel Costs	Line 13 * Line 12 / 100	\$ 29,808,119	\$ 24,611,764	\$ 27,279,791	\$ 36,251,780	\$ 28,313,887	\$ 24,660,070
15	Assign 100% of Avoided Fuel Benefit of SC NEM <sup>(Note 1)</sup>	- Line 7	(297,882)	(297,802)	(297,723)	(300,659)	(300,600)	(300,543)
16	Adjusted SC Base Fuel Costs	Line 14 + Line 15	\$ 29,510,237	\$ 24,313,962	\$ 26,982,068	\$ 35,951,122	\$ 28,013,287	\$ 24,359,527

Line No.	Description	Reference	April 2021	May 2021	June 2021	July 2021	August 2021	September 2021	Billing Period Twelve Months Ended September 2021
17	Coal		\$ 23,278,944	\$ 17,958,937	\$ 30,438,941	\$ 45,351,114	\$ 45,545,608	\$ 38,199,095	\$ 559,235,589
18	Gas		42,437,172	34,001,957	37,383,578	49,359,121	48,936,706	45,647,680	395,668,168
19	Nuclear Fuel		18,574,952	23,681,556	22,421,645	23,759,988	23,763,018	19,558,753	265,525,099
20	Purchased Power		17,682,786	15,072,532	19,865,515	22,478,241	21,773,675	20,044,146	202,235,265
21	Fuel Expense Recovered Through Intersystem Sales		(1,795,889)	(2,637,262)	(1,368,961)	(1,135,009)	(601,672)	(649,074)	(29,208,962)
22	Total Fuel Costs	Sum Lines 17 through 21	\$ 100,177,965	\$ 88,077,720	\$ 108,740,718	\$ 139,813,455	\$ 139,417,334	\$ 122,800,601	\$ 1,393,455,158
23	Eliminate Avoided Fuel Benefit of SC NEM		300,485	300,429	300,390	300,335	300,281	300,229	3,597,357
24	Adjusted System Fuel costs	Line 22 + Line 23	\$ 100,478,450	\$ 88,378,148	\$ 109,041,108	\$ 140,113,790	\$ 139,717,615	\$ 123,100,829	\$ 1,397,052,515
25	Total Projected System Sales kwhs (w/solar)		6,503,995,622	6,346,196,118	6,797,726,624	8,164,772,387	8,720,208,978	8,044,560,221	87,277,320,757
26	Eliminate NEM Solar Generation kwhs		11,362,417	11,360,320	11,358,867	11,356,837	11,354,841	11,352,878	136,028,643
27	Adjusted Projected System kwh Sales(w/o solar)	Line 25 + Line 26	6,515,358,040	6,357,556,439	6,809,085,492	8,176,129,224	8,731,563,819	8,055,913,099	87,413,349,400
28	System Cost per kwh (¢/kwh)	Line 24 / Line 27 *100	1.5422	1.3901	1.6014	1.7137	1.6001	1.5281	
29	Adjusted Projected SC Retail Sales kwhs(w/o solar)		1,649,822,260	1,597,237,560	1,678,842,334	1,985,974,463	2,139,435,534	2,011,459,695	21,565,985,559
30	SC Base Fuel Costs	Line 28 / 100 * Line 29	\$ 25,443,204	\$ 22,203,641	\$ 26,885,083	\$ 34,033,514	\$ 34,234,054	\$ 30,736,721	\$ 344,461,629
31	Assign 100% of Avoided Fuel Benefit of SC NEM <sup>(Note 1)</sup>	- Line 23	(300,485)	(300,429)	(300,390)	(300,335)	(300,281)	(300,229)	(3,597,357)
32	Adjusted SC Base Fuel Costs	Line 30 + Line 31	\$ 25,142,719	\$ 21,903,212	\$ 26,584,693	\$ 33,733,179	\$ 33,933,773	\$ 30,436,493	\$ 340,864,272
<b>Projected SC Retail Sales kWh (October 2020 - September 2021)</b>									
33	Residential								6,718,693,456
34	General Service/Lighting								5,885,428,337
35	Industrial								8,825,835,123
36	Total SC	Sum Lines 33 through 35							21,429,956,916
37	SC Base Fuel Rate (cents / kWh)	Line 32 / Line 36 * 100							1.5906

Note 1 - Equals total NEM avoided fuel benefit less portion included in DERP NEM Incentive.

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL**  
**ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020**

Line No.			<b>Residential</b>					
1	2018 Firm Coincident Peak CP %		51.25%					
2	2019 Firm Coincident Peak CP %		40.90%					

  

Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019
3	Total Reagents		\$ 2,535,839	\$ 2,974,461	\$ 3,173,258	\$ 2,678,396	\$ 1,617,148	\$ 2,898,400
4	Emission Allowances		(8,458)	(15,373)	(31,913)	(17,721)	417	(7,423)
5	Off-System Sales		(21,302)	(35,983)	(70,482)	(43,498)	(23,454)	(17,541)
6	Net Environmental Costs	Sum Lines 3 - 5	\$ 2,506,079	\$ 2,923,105	\$ 3,070,863	\$ 2,617,177	\$ 1,594,111	\$ 2,873,436
7	Total System KWH Sales	Exhibit 2, page 1	7,541,462,943	8,305,219,975	8,537,753,367	8,281,021,662	7,008,401,161	6,522,932,412
8	Environmental System Costs Incurred (¢ per Kwh)	Line 6 / Line 7* 100	0.0332	0.0352	0.0360	0.0316	0.0227	0.0441
9	SC Retail Sales kWh	Exhibit 2, page 1	1,853,845,823	2,006,467,798	2,082,064,398	2,020,390,470	1,745,407,713	1,605,281,709
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 616,045	\$ 706,196	\$ 748,878	\$ 638,535	\$ 397,006	\$ 707,148
11	Residential Environmental Cost Allocated by Firm CP	Line 10 * Line 1	\$ 315,724	\$ 361,926	\$ 383,801	\$ 327,250	\$ 203,466	\$ 362,414
12	SC Residential kWh Sales		579,501,697	683,050,986	692,345,521	661,232,806	508,681,181	425,303,983
13	SC Residential Environmental Cost Incurred (¢ per Kwh)	Line 11 / Line 12 * 100	0.0545	0.0530	0.0554	0.0495	0.0400	0.0852
14	SC Residential Environmental Cost Billed (¢ per Kwh)	Company records	0.0166	0.0166	0.0166	0.0166	0.0348	0.0601
15	SC Residential Environmental Costs (Over) / Under Recovery	(-Line 14 + Line 13)*Line 12 /100	\$ 219,527	\$ 248,540	\$ 268,872	\$ 217,485	\$ 26,658	\$ 106,885
16	(Over) / Under Cumulative Balance May 2019	Prior Year Annual Filing	\$ (328,907)					
17	Accounting Adjustment(s)							
18	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 15 + Line 17 + PM Cum Bal	\$ (109,380)	\$ 139,160	\$ 408,032	\$ 625,517	\$ 652,175	\$ 759,060

Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
19	Total Reagents		\$ 1,154,360	\$ 1,586,566	\$ 858,067	\$ 662,833	\$ 1,025,593	\$ 979,673	22,144,593
20	Emission Allowances		(4,304)	(2,322)	(2,991)	(11,706)	722	73	(100,999)
21	Off-System Sales		(8,196)	(5,704)	(8,782)	(27,953)	(7,847)	(7,650)	(278,391)
22	Net Environmental Costs	Sum Lines 19 - 21	\$ 1,141,860	\$ 1,578,540	\$ 846,294	\$ 623,174	\$ 1,018,468	\$ 972,096	\$ 21,765,202
23	Total System KWH Sales	Exhibit 2, page 1	7,150,989,325	7,183,161,407	7,218,451,279	6,546,859,177	5,937,728,447	5,638,927,495	85,872,908,650
24	Environmental System Costs Incurred (¢ per Kwh)	Line 22 / Line 23* 100	0.0160	0.0220	0.0117	0.0095	0.0172	0.0172	
25	SC Retail Sales kWh	Exhibit 2, page 1	1,699,148,577	1,689,507,456	1,751,773,205	1,605,890,341	1,455,867,918	1,362,977,929	20,878,623,337
26	SC Environmental Costs	Line 24 * Line 25/ 100	\$ 271,318	\$ 371,279	\$ 205,378	\$ 152,859	\$ 249,718	\$ 234,964	\$ 5,299,325
27	Residential Environmental Cost Allocated by Firm CP	Line 26 * Line 1 (or Line 2)	\$ 139,051	\$ 146,735	\$ 81,168	\$ 60,412	\$ 102,139	\$ 96,104	\$ 2,580,190
28	SC Residential kWh Sales		562,912,312	597,032,087	588,011,290	508,661,087	426,978,933	399,360,876	6,633,072,759
29	SC Residential Environmental Cost Incurred (¢ per Kwh)	Line 27 / Line 28 * 100	0.0247	0.0246	0.0138	0.0119	0.0239	0.0241	
30	SC Residential Environmental Cost Billed (¢ per Kwh)	Company records	0.0603	0.0603	0.0603	0.0603	0.0603	0.0603	
31	SC Residential Environmental Costs (Over) / Under Recovery	(-Line 30 + Line 29)*Line 28 /100	\$ (200,385)	\$ (213,275)	\$ (273,403)	\$ (246,311)	\$ (155,329)	\$ (144,711)	\$ (145,447)
32	Accounting Adjustment(s)					\$ 7,959	\$ 2,110		10,069
33	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Sum Lines 31-32 + PM Cum Bal	\$ 558,676	\$ 345,400	\$ 71,997	\$ (166,354)	\$ (319,574)	\$ (464,285)	\$ (464,285)

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.		Residential						
1	2018 Firm Coincident Peak CP %	51.25%						
2	2019 Firm Coincident Peak CP %	40.90%						
Line No.	Description	Reference	Estimated June 2020	Estimated July 2020	Estimated August 2020	Estimated September 2020	Sixteen Months Ended September 2020	
34	Total Reagents		\$ 1,984,372	\$ 2,661,207	\$ 2,991,063	\$ 2,004,035	\$ 31,785,270	
35	Emission Allowances		(20,047)	395	451	275	\$ (119,925)	
36	Off-System Sales		(23,444)	(14,947)	(25,716)	(6,146)	\$ (348,644)	
37	Net Environmental Costs	Sum Lines 34- 36	\$ 1,940,881	\$ 2,646,655	\$ 2,965,798	\$ 1,998,164	\$ 31,316,701	
38	Total Projected System Sales kwhs (w/solar)	Exhibit 2, page 2	6,734,780,109	7,783,263,903	8,303,520,666	7,670,294,572	116,364,767,900	
39	Environmental System Costs Incurred (¢ per Kwh)	Line 37 / Line 38* 100	0.0288	0.0340	0.0357	0.0261		
40	Projected SC Retail Sales kWh (w/solar)	Exhibit 2, page 2	1,623,613,976	1,828,330,042	1,983,691,625	1,871,950,619	28,186,209,598	
41	SC Environmental Costs	Line 39 / 100 * Line 40	\$ 467,906	\$ 621,713	\$ 708,522	\$ 487,656	\$ 7,585,122	
42	Residential Environmental Cost Allocated by Firm CP	Line 44 * Line 2	\$ 191,381	\$ 254,291	\$ 289,797	\$ 199,459	\$ 3,515,118	
43	SC Projected Residential kWh Sales (w/solar)		531,862,162	681,911,465	731,272,705	646,586,582	9,224,705,673	
44	SC Residential Environmental Cost Incurred (¢ per Kwh)	Line 42 / Line 43 * 100	0.0360	0.0373	0.0396	0.0308		
45	SC Residential Environmental Cost Billed (¢ per Kwh)	Company records	0.0603	0.0603	0.0603	0.0603		
46	SC Residential Environmental Costs (Over) / Under Recovery	(-Line 45 + Line 44) * Line 43 /100	\$ (129,332)	\$ (156,902)	\$ (151,160)	\$ (190,432)	\$ (773,273)	
47	Accounting Adjustment(s)						\$ 10,069	
48	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Sum Lines 46-47 + PM Cum Bal	\$ (593,617)	\$ (750,518)	\$ (901,679)	\$ (1,092,111)	\$ (1,092,111)	
49	SC Projected Residential Sales (October 2020-September 2021)	Exhibit 3						6,718,693,456
50	SC Residential Environmental Increment / (Decrement) (¢ per Kwh)	Line 48 / Line 49 * 100						<b>(0.0163)</b>

Note: Totals may not add due to rounding

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - GENERAL SERVICE/LIGHTING**  
**ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020**

Line No.			General Service / Lighting						
1		2018 Firm Coincident Peak CP %		23.90%					
2		2019 Firm Coincident Peak CP %		28.31%					

  

Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019
3	Total Reagents		\$ 2,535,839	\$ 2,974,461	\$ 3,173,258	\$ 2,678,396	\$ 1,617,148	\$ 2,898,400
4	Emission Allowances		(8,458)	(15,373)	(31,913)	(17,721)	417	(7,423)
5	Off-System Sales		(21,302)	(35,983)	(70,482)	(43,498)	(23,454)	(17,541)
6	Net Environmental Costs	Sum Lines 3 - 5	\$ 2,506,079	\$ 2,923,105	\$ 3,070,863	\$ 2,617,177	\$ 1,594,111	\$ 2,873,436
7	Total System KWH Sales	Exhibit 2, page 1	7,541,462,943	8,305,219,975	8,537,753,367	8,281,021,662	7,008,401,161	6,522,932,412
8	Environmental System Costs Incurred (¢ per Kwh)	Line 6 / Line 7 * 100	0.0332	0.0352	0.0360	0.0316	0.0227	0.0441
9	SC Retail Sales kWh	Exhibit 2, page 1	1,853,845,823	2,006,467,798	2,082,064,398	2,020,390,470	1,745,407,713	1,605,281,709
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 616,045	\$ 706,196	\$ 748,878	\$ 638,535	\$ 397,006	\$ 707,147
11	General Service / Lighting Environmental Cost Allocated by Firm CP	Line 10 * Line 1	\$ 147,242	\$ 168,789	\$ 178,991	\$ 152,617	\$ 94,889	\$ 169,017
12	SC General Service / Lighting kWh Sales		492,400,764	558,598,058	558,699,985	547,990,937	486,948,142	422,337,884
13	SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh)	Line 11 / Line 12 * 100	0.0299	0.0302	0.0320	0.0279	0.0195	0.0400
14	SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Company records	0.0193	0.0193	0.0193	0.0193	0.0216	0.0249
15	SC General Service / Lighting Environmental Costs (Over) / Under Recovery	(-Line 14 + Line 13)*Line 12 /100	\$ 52,209	\$ 60,980	\$ 71,162	\$ 46,855	\$ (10,423)	\$ 63,973
16	(Over) / Under Cumulative Balance May 2018	Prior Year Annual Filing	\$ (314,569)					
17	Accounting Adjustment(s)							
18	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	Line 15 + Line 17 + PM Cum Bal	\$ (262,360)	\$ (201,380)	\$ (130,219)	\$ (83,364)	\$ (93,786)	\$ (29,814)

Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
19	Total Reagents		\$ 1,154,360	\$ 1,586,566	\$ 858,067	\$ 662,833	\$ 1,025,593	\$ 979,673	\$ 22,144,593
20	Emission Allowances		(4,304)	(2,322)	(2,991)	(11,706)	\$ 722	73	(100,999)
21	Off-System Sales		(8,196)	(5,704)	(8,782)	(27,953)	\$ (7,847)	(7,650)	(278,391)
22	Net Environmental Costs	Sum Lines 19 - 21	\$ 1,141,860	\$ 1,578,540	\$ 846,294	\$ 623,174	\$ 1,018,468	\$ 972,096	\$ 21,765,202
23	Total System KWH Sales	Exhibit 2, page 1	7,150,989,325	7,183,161,407	7,218,451,279	6,546,859,177	5,937,728,447	5,638,927,495	85,872,908,650
24	Environmental System Costs Incurred (¢ per Kwh)	Line 22 / Line 23* 100	0.0160	0.0220	0.0117	0.0095	0.0172	0.0172	
25	SC Retail Sales kWh	Exhibit 2, page 1	1,699,148,577	1,689,507,456	1,751,773,205	1,605,890,341	1,455,867,918	1,362,977,929	20,878,623,337
26	SC Environmental Costs	Line 24 * Line 25/ 100	\$ 271,318	\$ 371,279	\$ 205,378	\$ 152,859	\$ 249,718	\$ 234,964	\$ 5,299,324
27	General Service / Lighting Environmental Cost Allocated by Firm CP	Line 26 * Line 1 (or Line 2)	\$ 64,848	\$ 103,078	\$ 57,019	\$ 42,438	\$ 70,688	\$ 66,512	\$ 1,316,129
28	SC General Service / Lighting kWh Sales		433,245,671	439,937,296	439,784,877	405,573,487	383,126,149	355,461,307	5,524,104,557
29	SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh)	Line 27 / Line 28 * 100	0.0150	0.0234	0.0130	0.0105	0.0185	0.0187	
30	SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Company Records	0.0249	0.0249	0.0249	0.0249	0.0249	0.0249	
31	SC General Service / Lighting Environmental Costs (Over) / Under Recovery	(-Line 30 + Line 29)*Line 28 /100	\$ (43,030)	\$ (6,466)	\$ (52,487)	\$ (58,550)	\$ (24,710)	\$ (21,998)	\$ 77,514
32	Accounting Adjustment(s)					\$ 3,139	\$ 832		\$ 3,971
33	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	Sum Lines 31-32 + PM Cum Bal	\$ (72,844)	\$ (79,310)	\$ (131,797)	\$ (187,208)	\$ (211,086)	\$ (233,084)	\$ (233,084)

Note: Totals may not add due to rounding



DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-GENERAL SERVICE/ LIGHTING  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.			General Service / Lighting				
1		2018 Firm Coincident Peak CP %	23.90%				
2		2019 Firm Coincident Peak CP %	28.31%				
			Estimated June 2020	Estimated July 2020	Estimated August 2020	Estimated September 2020	Sixteen Months Ended September 2020
Line No.	Description	Reference					
34	Total Reagents		\$ 1,984,372	\$ 2,661,207	\$ 2,991,063	\$ 2,004,035	\$ 31,785,270
35	Emission Allowances		(20,047)	395	451	275	(119,925)
36	Off-System Sales		(23,444)	(14,947)	(25,716)	(6,146)	(348,644)
37	Net Environmental Costs	Sum Lines 34 - 36	\$ 1,940,881	\$ 2,646,655	\$ 2,965,798	\$ 1,998,164	\$ 31,316,701
38	Total Projected System Sales kwhs (w/solar)	Exhibit 2, page 2	6,734,780,109	7,783,263,903	8,303,520,666	7,670,294,572	116,364,767,900
39	Environmental System Costs Incurred (¢ per Kwh)	Line 37 / Line 38* 100	0.0288	0.0340	0.0357	0.0261	
40	Projected SC Retail Sales kWh (w/solar)	Exhibit 2, page 2	1,623,613,976	1,828,330,042	1,983,691,625	1,871,950,619	28,186,209,598
41	SC Environmental Costs	Line 39 * Line 49/ 100	\$ 467,906	\$ 621,713	\$ 708,522	\$ 487,656	\$ 7,585,121
42	General Service / Lighting Environmental Cost Allocated by Firm CP	Line 41 * Line 2	\$ 132,451	\$ 175,990	\$ 200,563	\$ 138,042	\$ 1,963,175
43	SC Projected General Service / Lighting kWh Sales (w/solar)		439,496,485	512,165,205	542,525,890	513,682,442	7,531,974,579
44	SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh)	Line 42 / Line 43 * 100	0.0301	0.0344	0.0370	0.0269	
45	SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Company Records	0.0249	0.0249	0.0249	0.0249	
46	SC General Service / Lighting Environmental Costs (Over) / Under Recovery	(-Line 45 + Line 44) * Line 43 /100	\$ 23,017	\$ 48,461	\$ 65,474	\$ 10,135	\$ 224,600
47	Accounting Adjustment(s)						\$ 3,971
48	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	Sum Lines 46-47 + PM Cum Bal	\$ (210,068)	\$ (161,607)	\$ (96,133)	\$ (85,998)	\$ (85,998)
49	SC Projected General Service / Lighting Sales (October 2020 - September 2021)	Exhibit 3					5,885,428,337
50	SC General Service / Lighting Environmental Increment / (Decrement) (¢ per Kwh)	Line 48 / Line 49 * 100					(0.0015)

Note: Totals may not add due to rounding

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-INDUSTRIAL**  
**ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020**

Line No.									
		<b>Industrial</b>							
1	2018 Firm Coincident Peak CP %	24.85%							
2	2019 Firm Coincident Peak CP %	30.79%							
Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	
3	Total Reagents		\$ 2,535,839	\$ 2,974,461	\$ 3,173,258	\$ 2,678,396	\$ 1,617,148	\$ 2,898,400	
4	Emission Allowances		(8,458)	(15,373)	(31,913)	(17,721)	417	(7,423)	
5	Off-System Sales		(21,302)	(35,983)	(70,482)	(43,498)	(23,454)	(17,541)	
6	Net Environmental Costs	Sum Lines 3 - 5	\$ 2,506,079	\$ 2,923,105	\$ 3,070,863	\$ 2,617,177	\$ 1,594,111	\$ 2,873,436	
7	Total System KWH Sales	Exhibit 2, page 1	7,541,462,943	8,305,219,975	8,537,753,367	8,281,021,662	7,008,401,161	6,522,932,412	
8	Environmental System Costs Incurred (¢ per Kwh)	Line 6 / Line 7 * 100	0.0332	0.0352	0.0360	0.0316	0.0227	0.0441	
9	SC Retail Sales kWh	Exhibit 2, page 1	1,853,845,823	2,006,467,798	2,082,064,398	2,020,390,470	1,745,407,713	1,605,281,709	
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 616,045	\$ 706,196	\$ 748,878	\$ 638,535	\$ 397,006	\$ 707,147	
11	Industrial Environmental Cost Allocated by Firm CP	Line 10 * Line 1	\$ 153,079	\$ 175,481	\$ 186,086	\$ 158,668	\$ 98,651	\$ 175,717	
12	SC Industrial kWh Sales		781,943,362	764,818,754	831,018,892	811,166,727	749,778,390	757,639,842	
13	SC Industrial Environmental Cost Incurred (¢ per Kwh)	Line 11 / Line 12 * 100	0.0196	0.0229	0.0224	0.0196	0.0132	0.0232	
14	SC Industrial Environmental Cost Billed (¢ per Kwh)	Company records	0.0168	0.0168	0.0168	0.0168	0.0164	0.0158	
15	SC Industrial Environmental Costs (Over) / Under Recovery	(-Line 14 + Line 13)*Line 12 /100	\$ 21,713	\$ 46,991	\$ 46,475	\$ 22,392	\$ (24,196)	\$ 55,972	
16	(Over) / Under Cumulative Balance May 2019	Prior Year Annual Filing	\$ (322,059)						
17	Accounting Adjustment(s)								
18	Cumulative SC Industrial Environmental Costs (Over) / Under Recovery	Line 15 + Line 17 + PM Cum Bal	\$ (300,346)	\$ (253,355)	\$ (206,880)	\$ (184,488)	\$ (208,684)	\$ (152,712)	

Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
19	Total Reagents		\$ 1,154,360	\$ 1,586,566	\$ 858,067	\$ 662,833	\$ 1,025,593	\$ 979,673	\$ 22,144,593
20	Emission Allowances		(4,304)	(2,322)	(2,991)	(11,706)	722	73	(100,999)
21	Off-System Sales		(8,196)	(5,704)	(8,782)	(27,953)	(7,847)	(7,650)	(278,391)
22	Net Environmental Costs	Sum Lines 19 - 21	\$ 1,141,860	\$ 1,578,540	\$ 846,294	\$ 623,174	\$ 1,018,468	\$ 972,096	\$ 21,765,202
23	Total System KWH Sales	Exhibit 2, page 1	7,150,989,325	7,183,161,407	7,218,451,279	6,546,859,177	5,937,728,447	5,638,927,495	85,872,908,650
24	Environmental System Costs Incurred (¢ per Kwh)	Line 22 / Line 23* 100	0.0160	0.0220	0.0117	0.0095	0.0172	0.0172	
25	SC Retail Sales kWh	Exhibit 2, page 1	1,699,148,577	1,689,507,456	1,751,773,205	1,605,890,341	1,455,867,918	1,362,977,929	20,878,623,337
26	SC Environmental Costs	Line 24 * Line 25/ 100	\$ 271,318	\$ 371,279	\$ 205,378	\$ 152,859	\$ 249,717	\$ 234,964	\$ 5,299,323
27	Industrial Environmental Cost Allocated by Firm CP	Line 26 * Line 1 (or Line 2)	\$ 67,419	\$ 121,466	\$ 67,191	\$ 50,009	\$ 76,891	\$ 72,348	\$ 1,403,005
28	SC Industrial kWh Sales		702,990,594	652,538,073	723,977,038	691,655,767	645,762,836	608,154,218	8,721,444,493
29	SC Industrial Environmental Cost Incurred (¢ per Kwh)	Line 27 / Line 28 * 100	0.0096	0.0186	0.0093	0.0072	0.0119	0.0119	
30	SC Industrial Environmental Cost Billed (¢ per Kwh)	Company Records	0.0158	0.0158	0.0158	0.0158	0.0158	0.0158	
31	SC Industrial Environmental Costs (Over) / Under Recovery	(-Line 30 + Line 29)*Line 28 /100	\$ (43,654)	\$ 18,365	\$ (47,197)	\$ (59,273)	\$ (25,140)	\$ (23,741)	\$ (11,293)
32	Accounting Adjustment(s)					\$ (11,098)	\$ (2,942)		\$ (14,040)
33	Cumulative SC Industrial Environmental Costs (Over) / Under Recovery	Sum Lines 31-32 + PM Cum Bal	\$ (196,366)	\$ (178,001)	\$ (225,198)	\$ (295,569)	\$ (323,650)	\$ (347,392)	\$ (347,392)

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-INDUSTRIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.		Industrial						
1	2018 Firm Coincident Peak CP %	24.85%						
2	2019 Firm Coincident Peak CP %	30.79%						
Line No.	Description	Reference	Estimated June 2020	Estimated July 2020	Estimated August 2020	Estimated September 2020	Sixteen Months Ended September 2020	
34	Total Reagents		\$ 1,984,372	\$ 2,661,207	\$ 2,991,063	\$ 2,004,035	\$ 31,785,270	
35	Emission Allowances		(20,047)	395	451	275	\$ (119,925)	
36	Off-System Sales		(23,444)	(14,947)	(25,716)	(6,146)	\$ (348,644)	
37	Net Environmental Costs	Sum Lines 34 - 36	\$ 1,940,881	\$ 2,646,655	\$ 2,965,798	\$ 1,998,164	\$ 31,316,701	
38	Total Projected System Sales kwhs (w/solar)	Exhibit 2, page 2	6,734,780,109	7,783,263,903	8,303,520,666	7,670,294,572	116,364,767,900	
39	Environmental System Costs Incurred (¢ per Kwh)	Line 37 / Line 38* 100	0.0288	0.0340	0.0357	0.0261		
40	Projected SC Retail Sales kWh (w/solar)	Exhibit 2, page 2	1,623,613,976	1,828,330,042	1,983,691,625	1,871,950,619	28,186,209,598	
41	SC Environmental Costs	Line 39 * Line 40/ 100	\$ 467,906	\$ 621,713	\$ 708,522	\$ 487,656	\$ 7,585,120	
42	Industrial Environmental Cost Allocated by Firm CP	Line 41 * Line 2	\$ 144,073	\$ 191,432	\$ 218,162	\$ 150,155	\$ 2,106,828	
43	SC Projected Industrial kWh Sales (w/solar)		652,255,329	634,253,372	709,893,030	711,681,594	11,429,527,818	
44	SC Industrial Environmental Cost Incurred (¢ per Kwh)	Line 42 / Line 43 * 100	0.0221	0.0302	0.0307	0.0211		
45	SC Industrial Environmental Cost Billed (¢ per Kwh)	Company records	0.0158	0.0158	0.0158	0.0158		
46	SC Industrial Environmental Costs (Over) / Under Recovery	(-Line 45 + Line 44) * Line 43 /100	\$ 41,017	\$ 91,220	\$ 105,999	\$ 37,709	\$ 264,653	
47	Accounting Adjustment(s)						\$ (14,040)	
48	Cumulative SC Industrial Environmental Costs (Over) / Under Recovery	Sum Lines 46-47 + PM Cum Bal	\$ (306,375)	\$ (215,154)	\$ (109,155)	\$ (71,446)	\$ (71,446)	
49	SC Projected Industrial Sales (October 2020 - September 2021)	Exhibit 3					8,825,835,123	
50	SC Industrial Environmental Increment / (Decrement) (¢ per Kwh)	Line 48 / Line 49 * 100					(0.0008)	

Note: Totals may not add due to rounding

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**PROJECTED BILLING PERIOD ENVIRONMENTAL COSTS**  
**FOR THE 12 MONTHS OCTOBER 2020 TO SEPTEMBER 2021**

Line No.	Class	2019 Firm Coincident Peak (CP) KWs	CP %
1	Residential	1,632,146	40.90%
2	General Service / Lighting	1,129,577	28.31%
3	Industrial	1,228,694	30.79%
	Total SC	3,990,417	100.00%

Line No.	Description	Reference	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021
4	Total Reagents		\$ 1,258,467	\$ 2,080,587	\$ 2,992,318	\$ 3,343,435	\$ 3,287,419	\$ 2,287,818
5	Emission Allowances		148	274	430	463	479	369
6	Estimated Off-system Sales		(605)	(35,297)	(94,171)	(73,897)	(48,286)	(67,862)
7	Net Environmental Costs	Sum Lines 4 - 6	\$ 1,258,010	\$ 2,045,565	\$ 2,898,578	\$ 3,270,001	\$ 3,239,612	\$ 2,220,325
8	Total Projected System Sales kwhs (w/solar)	Exhibit 3	6,317,647,341	6,341,288,175	7,127,718,755	7,877,688,675	7,824,525,375	7,210,992,485
9	Environmental System Costs Incurred (¢ per Kwh)	Line 7 / Line 8 *100	0.0199	0.0323	0.0407	0.0415	0.0414	0.0308
10	Projected SC Retail Sales kWh (w/solar)	Exhibit 3 (Line 13-Line 10)	1,573,148,700	1,568,299,801	1,726,129,949	1,887,804,351	1,902,201,663	1,777,746,769
11	SC Environmental Costs	Line 9 * Line 10 /100	\$ 313,255	\$ 505,900	\$ 701,953	\$ 783,621	\$ 787,574	\$ 547,383

Line No.	Description	Reference	April 2021	May 2021	June 2021	July 2021	August 2021	September 2021	Billing Period Twelve Months Ended September 2021
12	Total Reagents		\$ 1,172,132	\$ 880,590	\$ 1,522,722	\$ 2,266,177	\$ 2,286,165	\$ 1,929,568	\$ 25,307,400
13	Emission Allowances		153	119	200	316	322	270	3,544
14	Estimated Off-system Sales		(27,349)	(40,161)	(20,847)	(17,284)	(9,163)	(9,884)	(444,807)
15	Net Environmental Costs	Sum Lines 12 - 14	\$ 1,144,936	\$ 840,548	\$ 1,502,075	\$ 2,249,209	\$ 2,277,325	\$ 1,919,954	\$ 24,866,138
16	Total Projected System Sales kwhs (w/solar)	Exhibit 3	6,503,995,622	6,346,196,118	6,797,726,624	8,164,772,387	8,720,208,978	8,044,560,221	87,277,320,757
17	Environmental System Costs Incurred (¢ per Kwh)	Line 15 / Line 16 *100	0.0176	0.0132	0.0221	0.0275	0.0261	0.0239	
18	Projected SC Retail Sales kWh (w/solar)	Exhibit 3 (Line 29 - Line 26)	1,638,459,843	1,585,877,239	1,667,483,467	1,974,617,626	2,128,080,693	2,000,106,817	21,429,956,916
19	SC Environmental Costs	Line 17 * Line 18 /100	\$ 288,428	\$ 210,048	\$ 368,459	\$ 543,962	\$ 555,759	\$ 477,355	\$ 6,083,698
<b>SC Environmental Costs Allocated on Firm CP kW's</b>									
20	Residential	Total Line 19 * Line 1							\$ 2,488,332
21	General Service / Lighting	Total Line 19 * Line 2							\$ 1,722,127
22	Industrial	Total Line 19 * Line 3							\$ 1,873,239
23	Total SC	Sum Lines 20 through 22							\$ 6,083,698
<b>Projected SC Retail Sales kWh (October 2020 - September 2021)</b>									
24	Residential	Exhibit 3							6,718,693,456
25	General Service / Lighting	Exhibit 3							5,885,428,337
26	Industrial	Exhibit 3							8,825,835,123
27	Total SC	Sum Lines 24 through 26							21,429,956,916
<b>SC Enviromental Costs ¢/kWh</b>									
28	Residential	Line 20 / Line 24 * 100							<b>0.0370</b>
29	General Service / Lighting	Line 21 / Line 25 * 100							<b>0.0293</b>
30	Industrial	Line 22 / Line 26 * 100							<b>0.0212</b>

Note: Totals may not add due to rounding

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL**  
**ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020**

Line No.									
		<b>Residential</b>							
1	2018 Firm Coincident Peak CP %	51.25%							
2	2019 Firm Coincident Peak CP %	40.90%							
Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	
3	Total PURPA Purchased Power Capacity Costs		\$ 2,502,503	\$ 6,660,685	\$ 7,119,137	\$ 4,362,373	\$ 3,576,924	\$ 1,084,529	
4	Firm Natural Gas Transportation and Storage Costs		3,723,027	3,888,295	3,794,324	3,781,992	3,317,997	2,288,808	
5	Total Capacity Related Costs	Sum Lines 3 - 4	\$ 6,225,530	\$ 10,548,980	\$ 10,913,461	\$ 8,144,365	\$ 6,894,921	\$ 3,373,337	
6	Total System kWh Sales	Exhibit 2, page 1	7,541,462,943	8,305,219,975	8,537,753,367	8,281,021,662	7,008,401,161	6,522,932,412	
7	Capacity Related System Costs Incurred (¢/kWh)	Line 5 / Line 6* 100	0.0826	0.1270	0.1278	0.0983	0.0984	0.0517	
8	SC Retail Sales kWh	Exhibit 2, page 1	1,853,845,823	2,006,467,798	2,082,064,398	2,020,390,470	1,745,407,713	1,605,281,709	
9	SC Capacity Related Cost Incurred	Line 7 / 100* Line 8	\$ 1,530,363	\$ 2,548,540	\$ 2,661,418	\$ 1,987,049	\$ 1,717,146	\$ 830,172	
10	Residential Capacity Related Cost Allocated by Firm CP	Line 9 * Line 1	\$ 784,312	\$ 1,306,130	\$ 1,363,980	\$ 1,018,365	\$ 880,039	\$ 425,464	
11	SC Residential kWh Sales	Exhibit 4, page 1	579,501,697	683,050,986	692,345,521	661,232,806	508,681,181	425,303,983	
12	SC Residential Capacity Related Cost Incurred (¢/kWh)	Line 10 / Line 11 * 100	0.1353	0.1912	0.1970	0.1540	0.1730	0.1000	
13	SC Residential Billed (¢/kWh)	Company Records	0.1274	0.1274	0.1274	0.1274	0.1202	0.1102	
14	SC Capacity Related (Over) / Under Recovery	(-Line 13 + Line 12)* Line 11 / 100	\$ 46,028	\$ 435,923	\$ 481,932	\$ 175,954	\$ 268,545	\$ (43,164)	
15	(Over) / Under Cumulative Balance May 2019	Prior Year Annual Filing	\$ (1,916,466)						
16	Accounting Adjustment(s)								
17	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Line 14+ Line 16 + PM Cum Bal	\$ (1,870,438)	\$ (1,434,515)	\$ (952,582)	\$ (776,628)	\$ (508,083)	\$ (551,248)	

Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
18	Total PURPA Purchased Power Capacity Costs		\$ 992,890	\$ 1,340,240	\$ 1,417,751	\$ 1,024,788	\$ 1,134,439	\$ 1,384,846	\$ 32,601,105
19	Firm Natural Gas Transportation and Storage Costs		3,689,945	3,979,724	3,871,752	4,418,821	4,261,140	4,765,673	45,781,498
20	Total Capacity Related Costs	Sum Lines 18-19	\$ 4,682,835	\$ 5,319,964	\$ 5,289,503	\$ 5,443,609	\$ 5,395,579	\$ 6,150,519	\$ 78,382,603
21	Total System kWh Sales	Exhibit 2, page 1	7,150,989,325	7,183,161,407	7,218,451,279	6,546,859,177	5,937,728,447	5,638,927,495	85,872,908,650
22	Capacity Related System Costs Incurred (¢/kWh)	Line 20 / Line 21* 100	0.0655	0.0741	0.0733	0.0831	0.0909	0.1091	
23	SC Retail Sales kWh	Exhibit 2, page 1	1,699,148,577	1,689,507,456	1,751,773,205	1,605,890,341	1,455,867,918	1,362,977,929	20,878,623,337
24	SC Capacity Related Cost Incurred	Line 22 / 100 * Line 23	\$ 1,112,690	\$ 1,251,277	\$ 1,283,656	\$ 1,335,272	\$ 1,322,939	\$ 1,486,634	\$ 19,067,156
25	Residential PURPA Capacity Related Cost Allocated by Firm CP	Line 24 * Line 1 (or Line 2)	\$ 570,255	\$ 494,522	\$ 507,319	\$ 527,718	\$ 541,104	\$ 608,058	\$ 9,027,265
26	SC Residential kWh Sales	Exhibit 4, page 1	562,912,312	597,032,087	588,011,290	508,661,087	426,978,933	399,360,876	6,633,072,759
27	SC Residential Capacity Related Cost Incurred (¢/kWh)	Line 25 / Line 26 * 100	0.1013	0.0828	0.0863	0.1037	0.1267	0.1523	
28	SC Residential Billed (¢/kWh)	Company Records	0.1101	0.1101	0.1101	0.1101	0.1101	0.1101	
29	SC Capacity Related (Over) / Under Recovery	(-Line 28 + Line 27)*Line 26 / 100	\$ (49,511)	\$ (162,810)	\$ (140,080)	\$ (32,318)	\$ 71,000	\$ 168,362	\$ 1,219,861
30	Accounting Adjustment(s)					\$ 34,987	\$ 18,430		\$ 53,417
31	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Sum Lines 29-30 + PM Cum Bal	\$ (600,759)	\$ (763,569)	\$ (903,649)	\$ (900,980)	\$ (811,550)	\$ (643,188)	\$ (643,188)

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.							
1	2018 Firm Coincident Peak CP %	Residential	51.25%				
2	2019 Firm Coincident Peak CP %		40.90%				
			Estimated	Estimated	Estimated	Estimated	Sixteen Months
Line No.	Description	Reference	June	July	August	September	Ended
			2020	2020	2020	2020	September 2020
32	Total PURPA Purchased Power Capacity Costs		\$ 2,229,546	\$ 3,744,397	\$ 3,654,901	\$ 2,154,269	\$ 44,384,217
33	Firm Natural Gas Transportation and Storage Costs		3,929,746	2,969,085	2,965,417	3,096,084	\$ 58,741,831
34	Total Capacity Related Costs	Sum Lines 32 - 33	\$ 6,159,292	\$ 6,713,482	\$ 6,620,318	\$ 5,250,353	\$ 103,126,048
35	Total System kWh Sales	Exhibit 2, page 2	6,734,780,109	7,783,263,903	8,303,520,666	7,670,294,572	116,364,767,900
36	Capacity Related System Costs Incurred (¢/kWh)	Line 34 / Line 35* 100	0.0915	0.0863	0.0797	0.0685	
37	SC Retail Sales kWh	Exhibit 2, page 2	1,623,613,976	1,828,330,042	1,983,691,625	1,871,950,619	28,186,209,598
38	SC Capacity Related Cost Incurred	Line 36 / 100* Line 37	\$ 1,484,876	\$ 1,577,033	\$ 1,581,578	\$ 1,281,359	\$ 24,992,002
39	Residential Capacity Related Cost Allocated by Firm CP	Line 38 * Line 2	\$ 607,339	\$ 645,032	\$ 646,891	\$ 524,097	\$ 11,450,624
40	SC Projected Residential kWh Sales		531,862,162	681,911,465	731,272,705	646,586,582	9,224,705,673
41	SC Residential Capacity Related Cost Incurred (¢/kWh)	Line 39 / Line 40 * 100	0.1142	0.0946	0.0885	0.0811	
42	SC Residential Billed (¢/kWh)	Company Records	0.1101	0.1101	0.1101	0.1101	
43	SC Capacity Related (Over) / Under Recovery	(-Line 42 + Line 41)*Line 40 /100	\$ 21,758	\$ (105,752)	\$ (158,240)	\$ (187,795)	\$ 789,832
44	Accounting Adjustment(s)						\$ 53,417
45	Cumulative SC Residential Capacity Related (Over) / Under Recovery	Sum Lines 43 - 44 + PM Cum Bal	\$ (621,430)	\$ (727,182)	\$ (885,422)	\$ (1,073,217)	\$ (1,073,217)
46	SC Projected Residential Sales (October 2020-September 2021)	Exhibit 3					6,718,693,456
47	SC Residential Capacity Related Increment / (Decrement) (¢/kWh)	Line 45 / Line 46* 100					(0.0160)

Note: Totals may not add due to rounding

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE/ LIGHTING**  
**ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020**

Line No.			<b>General Service / Lighting</b>					
1		2018 Firm Coincident Peak CP %	23.90%					
2		2019 Firm Coincident Peak CP %	28.31%					

  

Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019
3	Total PURPA Purchased Power Capacity Costs		\$ 2,502,503	\$ 6,660,685	\$ 7,119,137	\$ 4,362,373	\$ 3,576,924	\$ 1,084,529
4	Firm Natural Gas Transportation and Storage Costs		\$ 3,723,027	\$ 3,888,295	\$ 3,794,324	\$ 3,781,992	\$ 3,317,997	\$ 2,288,808
5	Total Capacity Related Costs	Sum Lines 3 - 4	\$ 6,225,530	\$ 10,548,980	\$ 10,913,461	\$ 8,144,365	\$ 6,894,921	\$ 3,373,337
6	Total System kWh Sales	Exhibit 2, page 1	7,541,462,943	8,305,219,975	8,537,753,367	8,281,021,662	7,008,401,161	6,522,932,412
7	Capacity Related System Costs Incurred (¢/kWh)	Line 5 / Line 6* 100	0.0826	0.1270	0.1278	0.0983	0.0984	0.0517
8	SC Retail Sales kWh	Exhibit 2, page 1	1,853,845,823	2,006,467,798	2,082,064,398	2,020,390,470	1,745,407,713	1,605,281,709
9	SC Capacity Related Cost Incurred	Line 7 / 100* Line 8	\$ 1,530,363	\$ 2,548,540	\$ 2,661,418	\$ 1,987,049	\$ 1,717,146	\$ 830,172
10	General Service / Lighting Capacity Related Cost Allocated by Firm CP	Line 9 * Line 1	\$ 365,775	\$ 609,131	\$ 636,110	\$ 474,928	\$ 410,418	\$ 198,421
11	SC General Service / Lighting kWh Sales	Exhibit 4, page 3	492,400,764	558,598,058	558,699,985	547,990,937	486,948,142	422,337,884
12	SC General Service / Lighting Capacity Related Cost Incurred (¢/kWh)	Line 10 / Line 11 * 100	0.0743	0.1090	0.1139	0.0867	0.0843	0.0470
13	SC General Service / Lighting Billed (¢/kWh)	Company Records	0.1158	0.1158	0.1158	0.1158	0.0793	0.0283
14	SC Capacity Related (Over) / Under Recovery	(-Line 13 + Line 12)* Line 11 / 100	\$ (204,425)	\$ (37,726)	\$ (10,865)	\$ (159,646)	\$ 24,385	\$ 78,733
15	(Over) / Under Cumulative Balance May 2019	Prior Year Annual Filing	\$ (1,556,375)					
16	Accounting Adjustment(s)							
17	Cumulative SC General Service / Lighting Capacity Related (Over) / Under Recovery	Line 14+ Line 16 + PM Cum Bal	\$ (1,760,800)	\$ (1,798,526)	\$ (1,809,392)	\$ (1,969,038)	\$ (1,944,653)	\$ (1,865,920)

Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
18	Total PURPA Purchased Power Capacity Costs		\$ 992,890	\$ 1,340,240	\$ 1,417,751	\$ 1,024,788	\$ 1,134,439	\$ 1,384,846	\$ 32,601,105
19	Firm Natural Gas Transportation and Storage Costs		\$ 3,689,945	\$ 3,979,724	\$ 3,871,752	\$ 4,418,821	\$ 4,261,140	\$ 4,765,673	\$ 45,781,498
20	Total Capacity Related Costs	Sum Lines 18-19	\$ 4,682,835	\$ 5,319,964	\$ 5,289,503	\$ 5,443,609	\$ 5,395,579	\$ 6,150,519	\$ 78,382,603
21	Total System kWh Sales	Exhibit 2, page 1	7,150,989,325	7,183,161,407	7,218,451,279	6,546,859,177	5,937,728,447	5,638,927,495	85,872,908,650
22	Capacity Related System Costs Incurred (¢/kWh)	Line 20 / Line 21* 100	0.0655	0.0741	0.0733	0.0831	0.0909	0.1091	
23	SC Retail Sales kWh	Exhibit 2, page 1	1,699,148,577	1,689,507,456	1,751,773,205	1,605,890,341	1,455,867,918	1,362,977,929	20,878,623,337
24	SC Capacity Related Cost Incurred	Line 22 / 100 * Line 23	\$ 1,112,690	\$ 1,251,277	\$ 1,283,656	\$ 1,335,272	\$ 1,322,939	\$ 1,486,634	\$ 19,067,156
25	General Service / Lighting Capacity Related Cost Allocated by Firm CP	Line 24 * Line 1 (or Line 2)	\$ 265,946	\$ 347,393	\$ 356,382	\$ 370,712	\$ 374,487	\$ 420,825	\$ 4,830,530
26	SC General Service / Lighting kWh Sales	Exhibit 4, page 3	433,245,671	439,937,296	439,784,877	405,573,487	383,126,149	355,461,307	5,524,104,557
27	SC General Service / Lighting Capacity Related Cost Incurred (¢/kWh)	Line 25 / Line 26 * 100	0.0614	0.0790	0.0810	0.0914	0.0977	0.1184	
28	SC General Service / Lighting Billed (¢/kWh)	Company Records	0.0279	0.0279	0.0279	0.0279	0.0279	0.0279	
29	SC Capacity Related (Over) / Under Recovery	(-Line 28 + Line 27)*Line 26 / 100	\$ 145,070	\$ 224,650	\$ 233,682	\$ 257,557	\$ 267,595	\$ 321,651	\$ 1,140,661
30	Accounting Adjustment(s)					\$ 13,795	\$ 7,267		\$ 21,062
31	Cumulative SC General Service / Lighting Capacity Related (Over) / Under Recovery	Sum Lines 29-30 + PM Cum Bal	\$ (1,720,850)	\$ (1,496,200)	\$ (1,262,518)	\$ (991,166)	\$ (716,304)	\$ (394,652)	\$ (394,652)

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE/ LIGHTING  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.								
		General Service / Lighting						
1		2018 Firm Coincident Peak CP %	23.90%					
2		2019 Firm Coincident Peak CP %	28.31%					
			Estimated June 2020	Estimated July 2020	Estimated August 2020	Estimated September 2020	Sixteen Months Ended September 2020	
Line No.	Description	Reference						
32	Total PURPA Purchased Power Capacity Costs		\$ 2,229,546	\$ 3,744,397	\$ 3,654,901	\$ 2,154,269	\$ 44,384,217	
33	Firm Natural Gas Transportation and Storage Costs		\$ 3,929,746	\$ 2,969,085	\$ 2,965,417	\$ 3,096,084	\$ 58,741,831	
34	Total Capacity Related Costs	Sum Lines 32-33	\$ 6,159,292	\$ 6,713,482	\$ 6,620,318	\$ 5,250,353	\$ 103,126,048	
35	Total System kWh Sales	Exhibit 2, page 2	6,734,780,109	7,783,263,903	8,303,520,666	7,670,294,572	116,364,767,900	
36	Capacity Related System Costs Incurred (¢/kWh)	Line 34 / Line 35* 100	0.0915	0.0863	0.0797	0.0685		
37	SC Retail Sales kWh	Exhibit 2, page 2	1,623,613,976	1,828,330,042	1,983,691,625	1,871,950,619	28,186,209,598	
38	SC Capacity Related Cost Incurred	Line 36 / 100* Line 37	\$ 1,484,876	\$ 1,577,033	\$ 1,581,578	\$ 1,281,359	\$ 24,992,002	
39	General Service / Lighting Capacity Related Cost Allocated by Firm CP	Line 38 * Line 2	\$ 420,327	\$ 446,414	\$ 447,701	\$ 362,717	\$ 6,507,690	
40	SC General Service / Lighting kWh Sales	Exhibit 4, page 4	439,496,485	512,165,205	542,525,890	513,682,442	7,531,974,579	
41	SC General Service / Lighting Capacity Related Cost Incurred (¢/kWh)	Line 39 / Line 40 * 100	0.0956	0.0872	0.0825	0.0706		
42	SC General Service / Lighting Billed (¢/kWh)	Company Records	0.0279	0.0279	0.0279	0.0279		
43	SC Capacity Related (Over) / Under Recovery	(-Line 42 + Line 41)*Line 40 /100	\$ 297,708	\$ 303,520	\$ 296,336	\$ 219,400	\$ 2,257,625	
44	Accounting Adjustment(s)						\$ 21,062	
45	Cumulative SC General Service / Lighting Capacity Related (Over) / Under Recovery	Sum Lines 43 - 44 + PM Cum Bal	\$ (96,944)	\$ 206,576	\$ 502,912	\$ 722,312	\$ 722,312	
46	SC Projected General Service / Lighting Sales (October 2020 - September 2021)	Exhibit 3					5,885,428,337	
47	SC General Service / Lighting Capacity Related Increment / (Decrement) (¢/kWh)	Line 45 / Line 46* 100					0.0123	

Note: Totals may not add due to rounding



**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - INDUSTRIAL**  
**ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020**

Line No.									
		<b>Industrial</b>							
1	2018 Firm Coincident Peak CP %	24.85%							
2	2019 Firm Coincident Peak CP %	30.79%							
Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	
3	Total PURPA Purchased Power Capacity Costs		\$ 2,502,503	\$ 6,660,685	\$ 7,119,137	\$ 4,362,373	\$ 3,576,924	\$ 1,084,529	
4	Firm Natural Gas Transportation and Storage Costs		3,723,027	3,888,295	\$ 3,794,324	\$ 3,781,992	\$ 3,317,997	\$ 2,288,808	
5	Total Capacity Related Costs	Sum Lines 3 - 4	\$ 6,225,530	\$ 10,548,980	\$ 10,913,461	\$ 8,144,365	\$ 6,894,921	\$ 3,373,337	
6	Total System kWh Sales	Exhibit 2, page 1	7,541,462,943	8,305,219,975	8,537,753,367	8,281,021,662	7,008,401,161	6,522,932,412	
7	Capacity Related Costs Incurred (¢/kWh)	Line 5 / Line 6* 100	0.0826	0.1270	0.1278	0.0983	0.0984	0.0517	
8	SC Retail Sales kWh	Exhibit 2, page 1	1,853,845,823	2,006,467,798	2,082,064,398	2,020,390,470	1,745,407,713	1,605,281,709	
9	SC Capacity Related Cost Incurred	Line 7 / 100* Line 8	\$ 1,530,363	\$ 2,548,540	\$ 2,661,418	\$ 1,987,049	\$ 1,717,146	\$ 830,172	
10	Industrial Capacity Related Cost Allocated by Firm CP	Line 9 * Line 1	\$ 380,275	\$ 633,279	\$ 661,328	\$ 493,756	\$ 426,688	\$ 206,287	
11	SC Industrial kWh Sales	Exhibit 4, page 5	781,943,362	764,818,754	831,018,892	811,166,727	749,778,390	757,639,842	
12	SC Industrial Capacity Related Cost Incurred (¢/kWh)	Line 10 / Line 11 * 100	0.0486	0.0828	0.0796	0.0609	0.0569	0.0272	
13	SC Industrial Billed (¢/kWh)	Company Records	0.0901	0.0901	0.0901	0.0901	0.0581	0.0135	
14	SC Capacity Related (Over) / Under Recovery	(-Line 13 + Line 12)* Line 11 / 100	\$ (324,256)	\$ (55,823)	\$ (87,420)	\$ (237,105)	\$ (8,971)	\$ 104,119	
15	(Over) / Under Cumulative Balance May 2019	Prior Year Annual Filing	\$ (1,906,697)						
16	Accounting Adjustment(s)								
17	Cumulative SC Industrial Capacity Related (Over) / Under Recovery	Line 14+ Line 16 + PM Cum Bal	\$ (2,230,953)	\$ (2,286,776)	\$ (2,374,196)	\$ (2,611,302)	\$ (2,620,272)	\$ (2,516,153)	

Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
18	Total PURPA Purchased Power Capacity Costs		\$ 992,890	\$ 1,340,240	\$ 1,417,751	\$ 1,024,788	\$ 1,134,439	\$ 1,384,846	\$ 32,601,105
19	Firm Natural Gas Transportation and Storage Costs		\$ 3,689,945	\$ 3,979,724	\$ 3,871,752	\$ 4,418,821	\$ 4,261,140	\$ 4,765,673	\$ 45,781,498
20	Total Capacity Related Costs	Sum Lines 18-19	\$ 4,682,835	\$ 5,319,964	\$ 5,289,503	\$ 5,443,609	\$ 5,395,579	\$ 6,150,519	\$ 78,382,603
21	Total System kWh Sales	Exhibit 2, page 1	7,150,989,325	7,183,161,407	7,218,451,279	6,546,859,177	5,937,728,447	5,638,927,495	85,872,908,650
22	Capacity Related Costs Incurred (¢/kWh)	Line 20 / Line 21* 100	0.0655	0.0741	0.0733	0.0831	0.0909	0.1091	
23	SC Retail Sales kWh	Exhibit 2, page 1	1,699,148,577	1,689,507,456	1,751,773,205	1,605,890,341	1,455,867,918	1,362,977,929	20,878,623,337
24	SC Capacity Related Cost Incurred	Line 22 / 100 * Line 23	\$ 1,112,690	\$ 1,251,277	\$ 1,283,656	\$ 1,335,272	\$ 1,322,939	\$ 1,486,634	\$ 19,067,156
25	Industrial Capacity Related Cost Allocated by Firm CP	Line 24 * Line 1 (or Line 2)	\$ 276,489	\$ 409,362	\$ 419,955	\$ 436,842	\$ 407,348	\$ 457,751	\$ 5,209,360
26	SC Industrial kWh Sales	Exhibit 4, page 5	702,990,594	652,538,073	723,977,038	691,655,767	645,762,836	608,154,218	8,721,444,493
27	SC Industrial Capacity Related Cost Incurred (¢/kWh)	Line 25 / Line 26 * 100	0.0393	0.0627	0.0580	0.0632	0.0631	0.0753	
28	SC Industrial Billed (¢/kWh)	Company Records	0.0131	0.0131	0.0131	0.0131	0.0131	0.0131	
29	SC Capacity Related (Over) / Under Recovery	(-Line 28 + Line 27)*Line 26 / 100	\$ 184,397	\$ 323,881	\$ 325,114	\$ 346,235	\$ 322,753	\$ 378,083	\$ 1,271,006
30	Accounting Adjustment(s)					\$ (48,783)	\$ (25,697)		\$ (74,480)
31	Cumulative SC Industrial Capacity Related (Over) / Under Recovery	Sum Lines 29-30 + PM Cum Bal	\$ (2,331,756)	\$ (2,007,875)	\$ (1,682,761)	\$ (1,385,309)	\$ (1,088,254)	\$ (710,171)	\$ (710,171)

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF CAPACITY RELATED COSTS (OVER) / UNDER RECOVERY - INDUSTRIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.		Industrial						
1	2018 Firm Coincident Peak CP %	24.85%						
2	2019 Firm Coincident Peak CP %	30.79%						
Line No.	Description	Reference	Estimated June 2020	Estimated July 2020	Estimated August 2020	Estimated September 2020	Sixteen Months Ended September 2020	
32	Total PURPA Purchased Power Capacity Costs		\$ 2,229,546	\$ 3,744,397	\$ 3,654,901	\$ 2,154,269	\$ 44,384,217	
33	Firm Natural Gas Transportation and Storage Costs		3,929,746	2,969,085	2,965,417	3,096,084	\$ 58,741,831	
34	Total Capacity Related Costs	Sum Lines 32-33	\$ 6,159,292	\$ 6,713,482	\$ 6,620,318	\$ 5,250,353	\$ 103,126,048	
35	Total System kWh Sales	Exhibit 2, page 2	6,734,780,109	7,783,263,903	8,303,520,666	7,670,294,572	116,364,767,900	
36	Capacity Related Costs Incurred (¢/kWh)	Line 34 / Line 35* 100	0.0915	0.0863	0.0797	0.0685		
37	SC Retail Sales kWh	Exhibit 2, page 2	1,623,613,976	1,828,330,042	1,983,691,625	1,871,950,619	28,186,209,598	
38	SC Capacity Related Cost Incurred	Line 36 / 100* Line 37	\$ 1,484,876	\$ 1,577,033	\$ 1,581,578	\$ 1,281,359	\$ 24,992,002	
39	Industrial Capacity Related Cost Allocated by Firm CP	Line 38 * Line 2	\$ 457,210	\$ 485,586	\$ 486,986	\$ 394,545	\$ 7,033,687	
40	SC Projected Industrial kWh Sales (w/solar)	Exhibit 4, page 6	652,255,329	634,253,372	709,893,030	711,681,594	11,429,527,818	
41	SC Industrial Capacity Related Cost Incurred (¢/kWh)	Line 39 / Line 40 * 100	0.0701	0.0766	0.0686	0.0554		
42	SC Industrial Billed (¢/kWh)	Company Records	0.0131	0.0131	0.0131	0.0131		
43	SC Capacity Related (Over) / Under Recovery	(-Line 42 + Line 41)*Line 40 /100	\$ 371,764	\$ 402,499	\$ 393,990	\$ 301,314	\$ 2,740,574	
44	Accounting Adjustment(s)						\$ (74,480)	
45	Cumulative SC Industrial Capacity Related (Over) / Under Recovery	Sum Lines 43 - 44 + PM Cum Bal	\$ (338,406)	\$ 64,093	\$ 458,082	\$ 759,397	\$ 759,397	
46	SC Projected Industrial Sales (October 2020 - September 2021)	Exhibit 3					8,825,835,123	
47	SC Industrial Capacity Related Increment / (Decrement) (¢/kWh)	Line 45 / Line 46* 100					0.0086	

Note: Totals may not add due to rounding

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**PROJECTED BILLING PERIOD CAPACITY RELATED COSTS**  
**FOR THE 12 MONTHS OCTOBER 2020 TO SEPTEMBER 2021**

Line No.	Class	2019 Firm Coincident Peak (CP) KWs	CP %
1	Residential	1,632,146	40.90%
2	General Service / Lighting	1,129,577	28.31%
3	Industrial	1,228,694	30.79%
	Total SC	3,990,417	100.00%

Line No.	Description	Reference	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021
4	Total PURPA Purchased Power Capacity Costs		\$ 1,872,589	\$ 1,658,501	\$ 1,567,048	\$ 1,577,748	\$ 1,570,786	\$ 1,930,296
5	Firm Natural Gas Transportation and Storage Costs		3,020,292	2,636,512	3,579,151	3,265,952	3,228,161	3,562,781
6	Total Capacity Costs	Sum Lines 4 - 5	\$ 4,892,881	\$ 4,295,013	\$ 5,146,199	\$ 4,843,700	\$ 4,798,947	\$ 5,493,077
7	Total Projected System Sales kwhs (w/solar)	Exhibit 5	6,317,647,341	6,341,288,175	7,127,718,755	7,877,688,675	7,824,525,375	7,210,992,485
8	Capacity Related System Costs Incurred (¢/Kwh)	Line 6 / Line 7 *100	0.0774	0.0677	0.0722	0.0615	0.0613	0.0762
9	Projected SC Retail Sales kWh (w/solar)	Exhibit 5	1,573,148,700	1,568,299,801	1,726,129,949	1,887,804,351	1,902,201,663	1,777,746,769
10	SC Capacity Related Costs Incurred	Line 8 / 100 * Line 9	\$ 1,218,370	\$ 1,062,224	\$ 1,246,262	\$ 1,160,741	\$ 1,166,660	\$ 1,354,224

Line No.	Description	Reference	April 2021	May 2021	June 2021	July 2021	August 2021	September 2021	Billing Period Twelve Months Ended September 2021
11	Total PURPA Purchased Power Capacity Costs		\$ 2,025,447	\$ 2,294,210	\$ 2,445,931	\$ 2,457,303	\$ 2,497,014	\$ 2,368,538	\$ 24,265,410
12	Firm Natural Gas Transportation and Storage Costs		4,255,274	3,788,266	3,464,162	3,703,466	3,850,866	3,882,533	42,237,417
13	Total Capacity Costs	Sum Lines 11 - 12	\$ 6,280,721	\$ 6,082,476	\$ 5,910,093	\$ 6,160,769	\$ 6,347,881	\$ 6,251,071	\$ 66,502,827
14	Total Projected System Sales kwhs (w/solar)	Exhibit 5	6,503,995,622	6,346,196,118	6,797,726,624	8,164,772,387	8,720,208,978	8,044,560,221	87,277,320,757
15	Capacity Related System Costs Incurred (¢/Kwh)	Line 13 / Line 14 *100	0.0966	0.0958	0.0869	0.0755	0.0728	0.0777	
16	Projected SC Retail Sales kWh (w/solar)	Exhibit 5	1,638,459,843	1,585,877,239	1,667,483,467	1,974,617,626	2,128,080,693	2,000,106,817	21,429,956,916
17	SC Capacity Related Costs Incurred	Line 15 / 100 * Line 16	\$ 1,582,213	\$ 1,519,975	\$ 1,449,747	\$ 1,489,957	\$ 1,549,137	\$ 1,554,194	\$ 16,353,706
<b>SC Capacity Related Costs Allocated on Firm CP kWs</b>									
18	Residential	Total Line 17 * Line 1							\$ 6,688,934
19	General Service / Lighting	Total Line 17 * Line 2							\$ 4,629,283
20	Industrial	Total Line 17 * Line 3							\$ 5,035,489
21	Total SC	Sum Lines 18 through 20							\$ 16,353,706
<b>Projected SC Retail Sales kWh (October 2020 - September 2021)</b>									
22	Residential	Exhibit 5							6,718,693,456
23	General Service / Lighting	Exhibit 5							5,885,428,337
24	Industrial	Exhibit 5							8,825,835,123
25	Total SC	Sum Lines 22 through 24							21,429,956,916
<b>SC Capacity Related Costs ¢/kWh</b>									
26	Residential	Line 18 / Line 22 * 100							0.0996
27	General Service / Lighting	Line 19 / Line 23 * 100							0.0787
28	Industrial	Line 20 / Line 24 * 100							0.0571

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
ACTUAL AND ESTIMATED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL COSTS  
FOR THE PERIOD JUNE 2019 - SEPTEMBER 2020

Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019
<b><u>DERP Incremental Costs</u></b>								
1	Purchased Power Agreements		\$ 1,653	\$ 1,003	\$ 1,256	\$ 1,202	\$ 1,131	\$ 905
2	DERP NEM Incentive		348,500	346,976	346,843	350,101	351,165	353,429
3	Solar Rebate Program - Amortization		9,191	8,981	12,751	12,751	12,751	12,751
4	Solar Rebate Program - Carrying Costs		8,930	8,774	10,495	12,301	12,126	12,056
5	Shared Solar Program		32,202	23,697	25,842	27,260	26,612	16,131
6	NEM Avoided Capacity Costs		36,373	36,532	36,554	36,770	35,418	34,087
7	NEM Meter Costs		59,270	59,082	59,179	59,450	59,814	60,027
8	General and Administrative Expenses		27,710	21,608	33,883	32,174	31,442	(33,922)
9	Interest on capped Industrial undercollection		-	-	-	-	-	-
10	Total DERP Incremental Costs	Sum Lines 1 - 9	\$ 523,829	\$ 506,654	\$ 526,804	\$ 532,009	\$ 530,458	\$ 455,464
11	Revenue Collected	Company Record	\$ 901,392	\$ 944,873	\$ 924,878	\$ 927,455	\$ 768,144	\$ 606,126
12	SC DERP Incremental (Over)/Under Recovery	Line 10 - Line 11	\$ (377,563)	\$ (438,219)	\$ (398,074)	\$ (395,446)	\$ (237,686)	\$ (150,662)
13	(Over)/Under Cumulative Balance-May 2019	Prior Year annual filing	\$ (474,257)					
14	Accounting Adjustment(s)							
15	Cumulative SC DERP Incremental (Over)/ Under Recovery	Line 12 + Line 14 + PM Cum Bal	\$ (851,820)	\$ (1,290,039)	\$ (1,688,113)	\$ (2,083,559)	\$ (2,321,246)	\$ (2,471,908)

Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
<b><u>DERP Incremental Costs</u></b>									
16	Purchased Power Agreements		\$ 756	\$ 654	\$ 651	\$ 7,299	\$ 9,334	\$ 7,774	\$ 33,617
17	DERP NEM Incentive		357,130	360,685	\$ 364,123	\$ 367,443	372,189	374,662	4,293,247
18	Solar Rebate Program - Amortization		12,751	12,612	\$ 12,612	\$ 12,611	19,708	19,708	159,179
19	Solar Rebate Program - Carrying Costs		11,986	11,851	\$ 11,709	\$ 11,639	15,071	18,464	145,402
20	Shared Solar Program		11,452	8,171	\$ 7,194	\$ 6,639	10,904	30,287	226,390
21	NEM Avoided Capacity Costs		34,555	37,240	\$ 37,443	\$ 37,358	37,602	37,761	437,692
22	NEM Meter Costs		60,370	60,728	\$ 60,927	\$ 61,222	61,571	61,789	723,429
23	General and Administrative Expenses		27,907	31,214	\$ 49,929	\$ (1,636)	31,394	27,981	279,685
24	Interest on capped Industrial undercollection								-
25	Total DERP Incremental Costs	Sum Lines 16 - 24	\$ 516,907	\$ 523,154	\$ 544,587	\$ 502,574	\$ 557,772	\$ 578,426	6,298,637
26	Revenue Collected	Company Record	\$ 608,150	\$ 609,508	\$ 608,362	\$ 610,006	\$ 610,418	\$ 611,293	8,730,605
27	SC DERP Incremental (Over)/Under Recovery	Line 25 - Line 26	\$ (91,243)	\$ (86,354)	\$ (63,775)	\$ (107,432)	\$ (52,646)	\$ (32,867)	(2,431,968)
28	Accounting Adjustment(s)					\$ (705)			\$ (705)
29	Cumulative SC DERP Incremental (Over)/ Under Recovery	Sum Lines 27-28 + PM Cum Bal	\$ (2,563,150)	\$ (2,649,504)	\$ (2,713,279)	\$ (2,821,416)	\$ (2,874,063)	\$ (2,906,930)	(2,906,930)

Note (1) Adjustments represent prior period adjustments reflected in the monthly Schedule 4 filings.

Note (2) Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
ACTUAL AND ESTIMATED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL COSTS  
FOR THE PERIOD JUNE 2019 - SEPTEMBER 2020

Line No.	Description	Reference	Estimated June 2020	Estimated July 2020	Estimated August 2020	Estimated September 2020	Sixteen Months Ended September 2020
<b>DERP Incremental Costs</b>							
30	Purchased Power Agreements		\$ 10,156	\$ 22,612	\$ 22,612	\$ 27,915	\$ 116,912
31	DERP NEM Incentive		378,634	425,148	426,118	426,427	\$ 5,949,574
32	Solar Rebate Program - Amortization		19,708	22,524	25,340	28,155	\$ 254,907
33	Solar Rebate Program - Carrying Costs		18,356	19,637	22,291	24,929	\$ 230,614
34	Shared Solar Program		30,915	12,005	12,005	12,005	\$ 293,321
35	NEM Avoided Capacity Costs		38,026	51,142	51,142	51,142	\$ 629,144
36	NEM Meter Costs		62,181	67,004	67,256	67,595	\$ 987,464
37	General and Administrative Expenses		24,835	57,434	57,434	57,434	\$ 476,821
38	Interest on capped Industrial undercollection		-	-	-	-	\$ -
39	Total DERP Incremental Costs	Sum Lines 30 - 38	\$ 582,811	\$ 677,506	\$ 684,197	\$ 695,603	\$ 8,938,754
40	Estimated Revenue Collected		\$ 614,237	\$ 607,374	\$ 607,711	\$ 608,048	\$ 11,167,975
41	SC DERP Incremental (Over)/Under Recovery	Line 39 - Line 40	\$ (31,425)	\$ 70,131	\$ 76,486	\$ 87,555	\$ (2,229,221)
42	Accounting Adjustment(s)						\$ (705)
43	Cumulative SC DERP Incremental (Over)/ Under Recovery	Sum Lines 41-42 + PM Cum Bal	\$ (2,938,355)	\$ (2,868,224)	\$ (2,791,738)	\$ (2,704,183)	\$ (2,704,183)

Note (1) Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF DERP INCREMENTAL COSTS (OVER)/UNDER RECOVERY BILLING FACTORS  
FOR THE PERIOD JUNE 2019 - SEPTEMBER 2020

		Cumulative Balance (Over)/Under Recovery at September 2020		
1 Cumulative DERP Incremental (Over)/ Under Recovery Balance	Exhibit 8, Page 2, Line 43	\$	(2,704,183)	
Allocation of DERP Incremental (Over)/Under Recovery	Firm Peak Demand - 2019	Cumulative Balance (Over)/Under Recovery at September 2020	(Over)/Under Recovery Allocated per Firm Peak Demand	
2 Residential	40.90%	\$	(1,106,055)	
3 General	28.31%		(765,480)	
4 Industrial	30.79%		(832,648)	
5 Total	100.00%	\$ (2,704,183)	\$ (2,704,183)	
	(Over)/Under Recovery Allocated per Firm Peak Demand	Projected Number of Accounts in Billing Period	\$ per Account per Year	\$ per Account per Month
6 Residential	\$ (1,106,055)	505,416	\$ (2.19)	\$ (0.18)
7 General	(765,480)	76,589	\$ (9.99)	\$ (0.83)
8 Industrial	(832,648)	1,563	\$ (532.72)	\$ (44.39)
9 Total	\$ (2,704,183)	583,568		

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
PROJECTED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL COSTS  
FOR THE 12 MONTHS OCTOBER 2020 TO SEPTEMBER 2021

Line No.	Description	Reference	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021
<b>DERP Incremental Costs</b>								
1	Purchased Power Agreements		\$ 42,362	\$ 75,736	\$ 92,933	\$ 92,933	\$ 92,933	\$ 92,933
2	DERP NEM Incentive		719,690	720,962	722,215	730,110	731,045	731,963
3	Solar Rebate Program - Amortization		30,971	33,787	36,602	36,602	36,602	36,602
4	Solar Rebate Program - Carrying Costs		27,553	30,160	32,753	33,941	33,740	33,540
5	Shared Solar Program		11,888	11,888	11,888	11,888	11,888	11,888
6	NEM Avoided Capacity Costs		-	-	-	-	-	-
7	NEM Meter Costs		68,036	68,501	68,971	69,456	69,941	70,430
8	General and Administrative Expenses		57,434	57,434	57,434	35,802	35,802	35,802
9	Interest on Capped Industrial Under-collection		408	445	467	456	458	459
10	<b>Total DERP Incremental Costs</b>	Sum Lines 1 - 9	<b>\$ 958,341</b>	<b>\$ 998,912</b>	<b>\$ 1,023,263</b>	<b>\$ 1,011,189</b>	<b>\$ 1,012,409</b>	<b>\$ 1,013,618</b>

Line No.	Description	Reference	April 2021	May 2021	June 2021	July 2021	August 2021	September 2021	Billing Period Twelve Months Ended September 2021
<b>DERP Incremental Costs</b>									
11	Purchased Power Agreements		\$ 92,933	\$ 92,933	\$ 92,933	\$ 92,933	\$ 92,933	\$ 92,933	\$ 1,047,429
12	DERP NEM Incentive		732,878	733,778	734,401	735,272	736,128	736,970	8,765,412
13	Solar Rebate Program - Amortization		36,602	36,602	36,602	36,602	36,602	36,602	430,781
14	Solar Rebate Program - Carrying Costs		33,339	33,139	32,938	32,737	32,537	32,336	388,714
15	Shared Solar Program		11,888	11,888	11,888	11,888	11,888	11,888	142,650
16	NEM Avoided Capacity Costs		-	-	-	-	-	-	-
17	NEM Meter Costs		70,920	71,414	71,913	72,407	72,902	73,396	848,286
18	General and Administrative Expenses		35,802	35,802	35,802	35,802	35,802	35,802	494,522
19	Interest on Capped Industrial Under-collection		461	462	463	464	466	467	5,475
20	<b>Total DERP Incremental Costs</b>	Sum Lines 11 - 19	<b>\$ 1,014,823</b>	<b>\$ 1,016,017</b>	<b>\$ 1,016,940</b>	<b>\$ 1,018,106</b>	<b>\$ 1,019,257</b>	<b>\$ 1,020,394</b>	<b>\$ 12,123,269</b>

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF DERP PROJECTED BILLING PERIOD COST FACTORS  
FOR THE PERIOD OCTOBER 2020 - SEPTEMBER 2021

		October 2020 through September 2021			
1 Total DERP Projected Incremental Costs		Exhibit 10 Line 20	\$ 12,123,269		
Allocation of DERP Incremental Costs		Firm Peak Demand - 2019	October 2020 through September 2021	Cost Allocated per Firm Peak Demand	
2 Residential		40.90%		\$ 4,958,616	
3 General		28.31%		3,431,763	
4 Industrial		30.79%		3,732,890	
5 Total		100.00%	\$ 12,123,269	\$ 12,123,269	
		Total Cost Allocated per Firm Peak Demand	Projected Number of Accounts in Billing Period	\$ per Account per Year	\$ per Account per Month
6 Residential		\$ 4,958,616	505,416	\$ 9.81	\$ 0.82
7 General		3,431,763	76,589	\$ 44.81	\$ 3.73
8 Industrial		3,732,890	1,563	\$ 2,388.29	\$ 199.02
9 Total		\$ 12,123,269	583,568		

Note: Totals may not add due to rounding



DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019
		<b>Residential</b>						
1	2018 Firm Coincident Peak CP %	51.25%						
2	2019 Firm Coincident Peak CP %	40.90%						
3	Purchased Power Agreements		\$ 4,731	\$ 3,629	\$ 4,119	\$ 4,080	\$ 3,896	\$ 8,140
4	Shared Solar Program		29,626	21,876	26,100	25,988	25,788	11,306
5	<b>Total DERP Avoided Costs</b>	<b>Sum Lines 3 - 4</b>	<b>\$ 34,357</b>	<b>\$ 25,505</b>	<b>\$ 30,219</b>	<b>\$ 30,068</b>	<b>\$ 29,684</b>	<b>\$ 19,446</b>
6	Total System kWh Sales	Exhibit 2, page 1	7,541,462,943	8,305,219,975	8,537,753,367	8,281,021,662	7,008,401,161	6,522,932,412
7	DERP Avoided System Cost - (¢/kWh)	Line 5 / Line 6* 100	0.0005	0.0003	0.0004	0.0004	0.0004	0.0003
8	SC Retail Sales kWh	Exhibit 2, page 1	1,853,845,823	2,006,467,798	2,082,064,398	2,020,390,470	1,745,407,713	1,605,281,709
9	SC DERP Avoided Costs	Line 7 / 100 * Line 8	\$ 8,446	\$ 6,162	\$ 7,369	\$ 7,336	\$ 7,393	\$ 4,786
10	Residential DERP Avoided Costs Allocated by Firm CP	Line 9 * Line 1	\$ 4,328	\$ 3,158	\$ 3,777	\$ 3,760	\$ 3,789	\$ 2,453
11	SC Residential kWh Sales	Exhibit 4, page 1	579,501,697	683,050,986	692,345,521	661,232,806	508,681,181	425,303,983
12	SC Residential DERP Avoided Cost (¢/kWh)	Line 10 / Line 11 * 100	0.0007	0.0005	0.0005	0.0006	0.0007	0.0006
13	SC Residential Rate Billed (¢/kWh)	Company Records	0.0006	0.0006	0.0006	0.0006	0.0014	0.0026
14	SC DERP Avoided Cost (Over) / Under Recovery	( Line 12 - Line 13 ) * Line 11 / 100	\$ 851	\$ (940)	\$ (377)	\$ (207)	\$ (3,490)	\$ (8,562)
15	(Over) / Under Cumulative Balance May 2019	Prior Year Annual Filing	\$ 9,668					
16	Accounting Adjustment(s)							
17	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 14 + Line 16 + PM Cum Bal	\$ 10,519	\$ 9,580	\$ 9,203	\$ 8,996	\$ 5,506	\$ (3,055)

Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
18	Purchased Power Agreements		\$ 2,066	\$ 1,707	\$ 1,727	\$ 67,553	\$ 38,251	\$ 15,120	\$ 155,019
19	Shared Solar Program		15,692	13,453	13,423	13,699	17,176	29,879	244,006
20	<b>Total DERP Avoided Costs</b>	<b>Sum Lines 18 - 19</b>	<b>\$ 17,758</b>	<b>\$ 15,160</b>	<b>\$ 15,150</b>	<b>\$ 81,252</b>	<b>\$ 55,427</b>	<b>\$ 44,999</b>	<b>\$ 399,025</b>
21	Total System kWh Sales	Exhibit 2, page 1	7,150,989,325	7,183,161,407	7,218,451,279	6,546,859,177	5,937,728,447	5,638,927,495	85,872,908,650
22	DERP Avoided System Cost - (¢/kWh)	Line 20 / Line 21* 100	0.0002	0.0002	0.0002	0.0012	0.0009	0.0008	
23	SC Retail Sales kWh	Exhibit 2, page 1	1,699,148,577	1,689,507,456	1,751,773,205	1,605,890,341	1,455,867,918	1,362,977,929	20,878,623,337
24	SC DERP Avoided Costs	Line 22 / 100 * Line 23	\$ 4,219	\$ 3,566	\$ 3,677	\$ 19,930	\$ 13,591	\$ 10,877	\$ 97,351
25	Residential DERP Avoided Costs Allocated by Firm CP	Line 24 * Line 1 (or Line 2)	\$ 2,162	\$ 1,409	\$ 1,453	\$ 7,877	\$ 5,559	\$ 4,450	\$ 44,174
26	SC Residential kWh Sales	Exhibit 4, page 1	562,912,312	597,032,087	588,011,290	508,661,087	426,978,933	399,360,876	6,633,072,759
27	SC Residential DERP Avoided Cost (¢/kWh)	Line 25 / Line 26 * 100	0.0004	0.0002	0.0002	0.0015	0.0013	0.0011	
28	SC Residential Rate Billed (¢/kWh)	Company Records	0.0026	0.0026	0.0026	0.0026	0.0026	0.0026	
29	SC DERP Avoided Cost (Over) / Under Recovery	(Line 27 - Line 28) * Line 26 / 100	\$ (12,474)	\$ (14,114)	\$ (13,835)	\$ (5,348)	\$ (5,542)	\$ (5,934)	\$ (69,972)
30	Accounting Adjustment(s)				\$ 100	\$ 274		\$ 374	
31	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 29-30 + PM Cum Bal	\$ (15,530)	\$ (29,643)	\$ (43,479)	\$ (48,727)	\$ (53,995)	\$ (59,929)	\$ (59,929)

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - RESIDENTIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.								
			Residential					
1	2018 Firm Coincident Peak CP %		51.25%					
2	2019 Firm Coincident Peak CP %		40.90%					
Line No.	Description	Reference	Estimated June 2020	Estimated July 2020	Estimated August 2020	Estimated September 2020	Sixteen Months Ended September 2020	
32	Purchased Power Agreements		\$ 98,663	\$ 81,340	\$ 81,322	\$ 95,750	\$ 512,094	
33	Shared Solar Program		28,241	20,151	20,151	20,151	\$ 332,700	
34	Total DERP Avoided Costs	Sum Lines 32-33	\$ 126,904	\$ 101,491	\$ 101,473	\$ 115,901	\$ 844,794	
35	Total Projected System Sales kwhs (w/solar)	Exhibit 2, page 2	6,734,780,109	7,783,263,903	8,303,520,666	7,670,294,572	116,364,767,900	
36	DERP Avoided System Cost (¢/kWh)	Line 34 / Line 35* 100	0.0019	0.0013	0.0012	0.0015		
37	Projected SC Retail Sales kWh (w/solar)	Exhibit 2, page 2	1,623,613,976	1,828,330,042	1,983,691,625	1,871,950,619	28,186,209,598	
38	SC DERP Avoided Costs	Line 36 / 100 * Line 37	\$ 30,594	\$ 23,841	\$ 24,242	\$ 28,286	\$ 204,313	
39	Residential DERP Avoided Costs Allocated by Firm CP	Line 38 * Line 2	\$ 12,513	\$ 9,751	\$ 9,915	\$ 11,569	\$ 87,924	
40	SC Projected Residential kWh Sales (w/solar)	Exhibit 4, page 2	531,862,162	681,911,465	731,272,705	646,586,582	9,224,705,673	
41	SC Residential DERP Avoided Cost (¢/kWh)	Line 39 / Line 40 * 100	0.0024	0.0014	0.0014	0.0018		
42	SC Residential Rate Billed (¢/kWh)	Company Records	0.0026	0.0026	0.0026	0.0026		
43	SC DERP Avoided Cost (Over) / Under Recovery	(Line 41 - Line 42) * Line 40 / 100	\$ (1,315)	\$ (7,978)	\$ (9,098)	\$ (5,242)	\$ (93,605)	
44	Accounting Adjustment(s)						\$ 374	
45	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 43-44 + PM Cum Bal	\$ (61,244)	\$ (69,222)	\$ (78,320)	\$ (83,562)	\$ (83,562)	
46	SC Projected Residential Sales (October 2020-September 2021)	Exhibit 3						6,718,693,456
47	SC Residential DERP AC Increment / (Decrement) (¢/kWh)	Line 45 / Line 46* 100						(0.0012)

Note: Totals may not add due to rounding

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - GENERAL SERVICE / LIGHTING**  
**ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020**

Line No.			General Service / Lighting						
1		2018 Firm Coincident Peak CP %	23.90%						
2		2019 Firm Coincident Peak CP %	28.31%						
Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	
3	Purchased Power Agreements		\$ 4,731	\$ 3,629	\$ 4,119	\$ 4,080	\$ 3,896	\$ 8,140	
4	Shared Solar Program		\$ 29,626	\$ 21,876	\$ 26,100	\$ 25,988	\$ 25,788	\$ 11,306	
5	Total DERP Avoided Costs	Sum Lines 3 - 4	\$ 34,357	\$ 25,505	\$ 30,219	\$ 30,068	\$ 29,684	\$ 19,446	
6	Total System kWh Sales	Exhibit 2, page 1	7,541,462,943	8,305,219,975	8,537,753,367	8,281,021,662	7,008,401,161	6,522,932,412	
7	DERP Avoided System Cost - (¢/kWh)	Line 5 / Line 6* 100	0.0005	0.0003	0.0004	0.0004	0.0004	0.0003	
8	SC Retail Sales kWh	Exhibit 2, page 1	1,853,845,823	2,006,467,798	2,082,064,398	2,020,390,470	1,745,407,713	1,605,281,709	
9	SC DERP Avoided Costs	Line 7 / 100 * Line 8	\$ 8,446	\$ 6,162	\$ 7,368	\$ 7,336	\$ 7,393	\$ 4,786	
10	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 9 * Line 1	\$ 2,019	\$ 1,473	\$ 1,761	\$ 1,753	\$ 1,767	\$ 1,144	
11	SC General Service/Lighting kWh Sales	Exhibit 4, page 3	492,400,764	558,598,058	558,699,985	547,990,937	486,948,142	422,337,884	
12	SC General Service/Lighting DERP Avoided Cost (¢/kWh)	Line 10 / Line 11 * 100	0.0004	0.0003	0.0003	0.0003	0.0004	0.0003	
13	SC General Service/Lighting Rate Billed (¢/kWh)	Company Records	0.0005	0.0005	0.0005	0.0005	0.0008	0.0012	
14	SC DERP Avoided Cost (Over) / Under Recovery	( Line 12 - Line 13 ) * Line 11 / 100	\$ (443)	\$ (1,320)	\$ (1,032)	\$ (987)	\$ (2,084)	\$ (3,909)	
15	(Over) / Under Cumulative Balance May 2019	Prior Year Annual Filing	\$ (2,589)						
16	Accounting Adjustment(s)								
17	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 14 + Line 16 + PM Cum Bal	\$ (3,032)	\$ (4,353)	\$ (5,385)	\$ (6,372)	\$ (8,456)	\$ (12,365)	
Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
18	Purchased Power Agreements		\$ 2,066	\$ 1,707	\$ 1,727	\$ 67,553	\$ 38,251	\$ 15,120	\$ 155,019
19	Shared Solar Program		\$ 15,692	\$ 13,453	\$ 13,423	\$ 13,699	\$ 17,176	\$ 29,879	\$ 244,006
20	Total DERP Avoided Costs	Sum Lines 18 - 19	\$ 17,758	\$ 15,160	\$ 15,150	\$ 81,252	\$ 55,427	\$ 44,999	\$ 399,024
21	Total System kWh Sales	Exhibit 2, page 1	7,150,989,325	7,183,161,407	7,218,451,279	6,546,859,177	5,937,728,447	5,638,927,495	85,872,908,650
22	DERP Avoided System Cost - (¢/kWh)	Line 20 / Line 21* 100	0.0002	0.0002	0.0002	0.0012	0.0009	0.0008	
23	SC Retail Sales kWh	Exhibit 2, page 1	1,699,148,577	1,689,507,456	1,751,773,205	1,605,890,341	1,455,867,918	1,362,977,929	20,878,623,337
24	SC DERP Avoided Costs	Line 22 / 100 * Line 23	\$ 4,219	\$ 3,566	\$ 3,677	\$ 19,930	\$ 13,591	\$ 10,877	\$ 97,350
25	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 24 * Line 1 (or Line 2)	\$ 1,009	\$ 990	\$ 1,021	\$ 5,533	\$ 3,847	\$ 3,079	\$ 25,395
26	SC General Service/Lighting kWh Sales	Exhibit 4, page 3	433,245,671	439,937,296	439,784,877	405,573,487	383,126,149	355,461,307	5,524,104,557
27	SC General Service/Lighting DERP Avoided Cost (¢/kWh)	Line 25 / Line 26 * 100	0.0002	0.0002	0.0002	0.0014	0.0010	0.0009	
28	SC General Service/Lighting Rate Billed (¢/kWh)	Company Records	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	
29	SC DERP Avoided Cost (Over) / Under Recovery	(Line 27 - Line 28) * Line 26 / 100	\$ (4,190)	\$ (4,289)	\$ (4,256)	\$ 666	\$ (751)	\$ (1,187)	\$ (23,784)
30	Accounting Adjustment(s)					\$ 39	\$ 109		\$ 148
31	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 29-30 + PM Cum Bal	\$ (16,556)	\$ (20,845)	\$ (25,101)	\$ (24,396)	\$ (25,038)	\$ (26,225)	\$ (26,225)

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - GENERAL SERVICE / LIGHTING  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.			General Service / Lighting				
1		2018 Firm Coincident Peak CP %	23.90%				
2		2019 Firm Coincident Peak CP %	28.31%				
Line No.	Description	Reference	Estimated June 2020	Estimated July 2020	Estimated August 2020	Estimated September 2020	Sixteen Months Ended September 2020
32	Purchased Power Agreements		\$ 98,663	\$ 81,340	\$ 81,322	\$ 95,750	\$ 512,094
33	Shared Solar Program		\$ 28,241	\$ 20,151	\$ 20,151	\$ 20,151	\$ 332,700
34	Total DERP Avoided Costs	Sum Lines 32-33	\$ 126,904	\$ 101,491	\$ 101,473	\$ 115,901	\$ 844,794
35	Total Projected System Sales kwhs (w/solar)	Exhibit 2, page 2	6,734,780,109	7,783,263,903	8,303,520,666	7,670,294,572	116,364,767,900
36	DERP Avoided System Cost (¢/kWh)	Line 34 / Line 35* 100	0.0019	0.0013	0.0012	0.0015	
37	Projected SC Retail Sales kWh	Exhibit 2, page 2	1,623,613,976	1,828,330,042	1,983,691,625	1,871,950,619	28,186,209,598
38	SC DERP Avoided Costs	Line 36 / 100 * Line 37	\$ 30,594	\$ 23,841	\$ 24,242	\$ 28,286	\$ 204,312
39	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 38 * Line 2	\$ 8,660	\$ 6,749	\$ 6,862	\$ 8,007	\$ 55,673
40	SC General Service/Lighting kWh Sales	Exhibit 4, page 4	439,496,485	512,165,205	542,525,890	513,682,442	7,531,974,579
41	SC General Service/Lighting DERP Avoided Cost (¢/kWh)	Line 39 / Line 40 * 100	0.0020	0.0013	0.0013	0.0016	
42	SC General Service/Lighting Rate Billed (¢/kWh)	Company Records	0.0012	0.0012	0.0012	0.0012	
43	SC DERP Avoided Cost (Over) / Under Recovery	(Line 41 - Line 42) * Line 40 / 100	\$ 3,386	\$ 603	\$ 352	\$ 1,843	\$ (17,600)
44	Accounting Adjustment(s)						\$ 148
45	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 43-44 + PM Cum Bal	\$ (22,839)	\$ (22,236)	\$ (21,884)	\$ (20,041)	\$ (20,041)
46	SC Projected General Service / Lighting Sales (October 2020 - September 2021)	Exhibit 3					5,885,428,337
47	SC General Service/Lighting DERP AC Increment / (Decrement) (¢/kWh)	Line 45 / Line 46* 100					(0.0003)

Note: Totals may not add due to rounding

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - INDUSTRIAL**  
**ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020**

Line No.			<b>Industrial</b>							
1	2018 Firm Coincident Peak CP %		24.85%							
2	2019 Firm Coincident Peak CP %		30.79%							

  

Line No.	Description	Reference	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019		
3	Purchased Power Agreements		\$ 4,731	\$ 3,629	\$ 4,119	\$ 4,080	\$ 3,896	\$ 8,140		
4	Shared Solar Program		\$ 29,626	\$ 21,876	\$ 26,100	\$ 25,988	\$ 25,788	\$ 11,306		
5	<b>Total DERP Avoided Costs</b>	<b>Sum Lines 3-4</b>	<b>\$ 34,357</b>	<b>\$ 25,505</b>	<b>\$ 30,219</b>	<b>\$ 30,068</b>	<b>\$ 29,684</b>	<b>\$ 19,446</b>		
6	Total System kWh Sales	Exhibit 2, page 1	7,541,462,943	8,305,219,975	8,537,753,367	8,281,021,662	7,008,401,161	6,522,932,412		
7	DERP Avoided System Cost - (¢/kWh)	Line 5 / Line 6* 100	0.0005	0.0003	0.0004	0.0004	0.0004	0.0003		
8	SC Retail Sales kWh	Exhibit 2, page 1	1,853,845,823	2,006,467,798	2,082,064,398	2,020,390,470	1,745,407,713	1,605,281,709		
9	SC DERP Avoided Costs	Line 7 / 100 * Line 8	\$ 8,446	\$ 6,162	\$ 7,369	\$ 7,336	\$ 7,393	\$ 4,786		
10	Industrial DERP Avoided Costs Allocated by Firm CP	Line 9 * Line 1	\$ 2,099	\$ 1,531	\$ 1,831	\$ 1,823	\$ 1,837	\$ 1,189		
11	SC Industrial kWh Sales	Exhibit 4, page 5	781,943,362	764,818,754	831,018,892	811,166,727	749,778,390	757,639,842		
12	SC Industrial DERP Avoided Cost (¢/kWh)	Line 10 / Line 11 * 100	0.0003	0.0002	0.0002	0.0002	0.0002	0.0002		
13	SC Industrial Rate Billed (¢/kWh)	Company Records	0.0004	0.0004	0.0004	0.0004	0.0005	0.0007		
14	SC DERP Avoided Cost (Over) / Under Recovery	( Line 12 - Line 13 ) * Line 11 / 100	\$ (1,029)	\$ (1,528)	\$ (1,493)	\$ (1,422)	\$ (2,097)	\$ (4,103)		
15	(Over) / Under Cumulative Balance May 2019	Prior Year Annual Filing	\$ (8,549)							
16	Accounting Adjustment(s)									
17	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 14 + Line 16 + PM Cum Bal	\$ (9,578)	\$ (11,105)	\$ (12,599)	\$ (14,020)	\$ (16,117)	\$ (20,220)		

  

Line No.	Description	Reference	December 2019	January 2020	February 2020	March 2020	April 2020	May 2020	Twelve Months Ended May 2020
18	Purchased Power Agreements		\$ 2,066	\$ 1,707	\$ 1,727	\$ 67,553	\$ 38,251	\$ 15,120	\$ 155,019
19	Shared Solar Program		\$ 15,692	\$ 13,453	\$ 13,423	\$ 13,699	\$ 17,176	\$ 29,879	\$ 244,006
20	<b>Total DERP Avoided Costs</b>	<b>Sum Lines 18-19</b>	<b>\$ 17,758</b>	<b>\$ 15,160</b>	<b>\$ 15,150</b>	<b>\$ 81,252</b>	<b>\$ 55,427</b>	<b>\$ 44,999</b>	<b>\$ 399,024</b>
21	Total System kWh Sales	Exhibit 2, page 1	7,150,989,325	7,183,161,407	7,218,451,279	6,546,859,177	5,937,728,447	5,638,927,495	85,872,908,650
22	DERP Avoided System Cost - (¢/kWh)	Line 20 / Line 21* 100	0.0002	0.0002	0.0002	0.0012	0.0009	0.0008	
23	SC Retail Sales kWh	Exhibit 2, page 1	1,699,148,577	1,689,507,456	1,751,773,205	1,605,890,341	1,455,867,918	1,362,977,929	20,878,623,337
24	SC DERP Avoided Costs	Line 22 / 100 * Line 23	\$ 4,219	\$ 3,566	\$ 3,677	\$ 19,930	\$ 13,591	\$ 10,877	\$ 97,351
25	Industrial DERP Avoided Costs Allocated by Firm CP	Line 24 * Line 1 (or Line 2)	\$ 1,048	\$ 1,167	\$ 1,203	\$ 6,520	\$ 4,185	\$ 3,349	\$ 27,782
26	SC Industrial kWh Sales	Exhibit 4, page 5	702,990,594	652,538,073	723,977,038	691,655,767	645,762,836	608,154,218	8,721,444,493
27	SC Industrial DERP Avoided Cost (¢/kWh)	Line 25 / Line 26 * 100	0.0001	0.0002	0.0002	0.0009	0.0006	0.0006	
28	SC Industrial Rate Billed (¢/kWh)	Company Records	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	
29	SC DERP Avoided Cost (Over) / Under Recovery	(Line 27 - Line 28) * Line 26 / 100	\$ (3,873)	\$ (3,401)	\$ (3,865)	\$ 1,678	\$ (335)	\$ (908)	\$ (22,376)
30	Accounting Adjustment(s)					\$ (140)	\$ (383)		\$ (523)
31	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 29-30 + PM Cum Bal	\$ (24,093)	\$ (27,494)	\$ (31,359)	\$ (29,820)	\$ (30,539)	\$ (31,447)	\$ (31,447)

Note: Totals may not add due to rounding

DUKE ENERGY CAROLINAS, LLC  
SOUTH CAROLINA RETAIL FUEL CASE  
CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - INDUSTRIAL  
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2019 - SEPTEMBER 2020

Line No.		Industrial							
1	2018 Firm Coincident Peak CP %	24.85%							
2	2019 Firm Coincident Peak CP %	30.79%							
Line No.	Description	Reference	Estimated June 2020	Estimated July 2020	Estimated August 2020	Estimated September 2020	Sixteen Months Ended September 2020		
32	Purchased Power Agreements		\$ 98,663	\$ 81,340	\$ 81,322	\$ 95,750	\$ 512,094		
33	Shared Solar Program		28,241	20,151	20,151	20,151	\$ 332,700		
<b>34</b>	<b>Total DERP Avoided Costs</b>	<b>Sum Lines 32-33</b>	<b>\$ 126,904</b>	<b>\$ 101,491</b>	<b>\$ 101,473</b>	<b>\$ 115,901</b>	<b>\$ 844,794</b>		
35	Total System kWh Sales	Exhibit 2, page 2	6,734,780,109	7,783,263,903	8,303,520,666	7,670,294,572	116,364,767,900		
36	DERP Avoided System Cost - (¢/kWh)	Line 34 / Line 35* 100	0.0019	0.0013	0.0012	0.0015	0.0007		
37	SC Retail Sales kWh	Exhibit 2, page 2	1,623,613,976	1,828,330,042	1,983,691,625	1,871,950,619	28,186,209,598		
38	SC DERP Avoided Costs	Line 36 / 100 * Line 37	\$ 30,594	\$ 23,841	\$ 24,242	\$ 28,286	\$ 204,313		
39	Industrial DERP Avoided Costs Allocated by Firm CP	Line 38 * Line 2	\$ 9,420	\$ 7,341	\$ 7,464	\$ 8,710	\$ 60,717		
40	SC Industrial kWh Sales	Exhibit 4, page 6	652,255,329	634,253,372	709,893,030	711,681,594	11,429,527,818		
41	SC Industrial DERP Avoided Cost (¢/kWh)	Line 39 / Line 40 * 100	0.0014	0.0012	0.0011	0.0012			
42	SC Industrial Rate Billed (¢/kWh)	Company Records	0.0007	0.0007	0.0007	0.0007			
43	SC DERP Avoided Cost (Over) / Under Recovery	(Line 41 - Line 42) * Line 40 / 100	\$ 4,854	\$ 2,901	\$ 2,495	\$ 3,728	\$ (8,398)		
44	Accounting Adjustment(s)						\$ (523)		
45	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Sum Lines 43-44 + PM Cum Bal	\$ (26,592)	\$ (23,691)	\$ (21,196)	\$ (17,469)	\$ (17,469)		
46	SC Projected Industrial Sales (October 2020 - September 2021)	Exhibit 3						8,825,835,123	
47	SC Industrial DERP AC Increment / (Decrement) (¢/kWh)	Line 41 / Line 42* 100						<b>(0.0002)</b>	

Note: Totals may not add due to rounding

**DUKE ENERGY CAROLINAS, LLC**  
**SOUTH CAROLINA RETAIL FUEL CASE**  
**CALCULATION OF PROJECTED BILLING PERIOD DERP AVOIDED COST BILLING FACTORS**  
**FOR THE 12 MONTHS OCTOBER 2020 TO SEPTEMBER 2021**

Line No.	Class	2019 Firm Coincident Peak (CP) KWs	CP %
1	Residential	1,632,146	40.90%
2	General Service / Lighting	1,129,577	28.31%
3	Industrial	1,228,694	30.79%
	Total SC	3,990,417	100%

Line No.	Description	Reference	October 2020	November 2020	December 2020	January 2021	February 2021	March 2021
4	Purchased Power Agreements		\$ 142,685	\$ 198,139	\$ 243,637	\$ 243,655	\$ 243,671	\$ 284,715
5	Shared Solar Program		20,084	20,084	20,084	20,084	20,084	20,084
6	<b>Total DERP Avoided Costs</b>	Sum Lines 4 - 5	<b>\$ 162,769</b>	<b>\$ 218,223</b>	<b>\$ 263,721</b>	<b>\$ 263,739</b>	<b>\$ 263,755</b>	<b>\$ 304,799</b>
7	Total Projected System Sales kwhs (w/solar)	Exhibit 7	6,317,647,341	6,341,288,175	7,127,718,755	7,877,688,675	7,824,525,375	7,210,992,485
8	DERP Avoided System Cost - (¢/kWh)	Line 6 / Line 7 * 100	0.0026	0.0034	0.0037	0.0033	0.0034	0.0042
9	Projected SC Retail Sales kWh (w/solar)	Exhibit 7	1,573,148,700	1,568,299,801	1,726,129,949	1,887,804,351	1,902,201,663	1,777,746,769
10	SC DERP Avoided Costs	Line 8 / 100 * Line 9	\$ 40,531	\$ 53,970	\$ 63,866	\$ 63,202	\$ 64,121	\$ 75,143

Line No.	Description	Reference	April 2021	May 2021	June 2021	July 2021	August 2021	September 2021	Billing Period Twelve Months Ended September 2021
11	Purchased Power Agreements		\$ 243,732	\$ 243,761	\$ 243,763	\$ 243,756	\$ 243,737	\$ 243,717	\$ 2,818,968
12	Shared Solar Program		20,084	20,084	20,084	20,084	20,084	20,084	241,008
13	<b>Total DERP Avoided Costs</b>	Sum Lines 11 - 12	<b>\$ 263,816</b>	<b>\$ 263,845</b>	<b>\$ 263,847</b>	<b>\$ 263,840</b>	<b>\$ 263,821</b>	<b>\$ 263,801</b>	<b>\$ 3,059,976</b>
14	Total Projected System Sales kwhs (w/solar)	Exhibit 7	6,503,995,622	6,346,196,118	6,797,726,624	8,164,772,387	8,720,208,978	8,044,560,221	87,277,320,757
15	DERP Avoided System Cost - (¢/kWh)	Line 13 / Line 14 *100	0.0041	0.0042	0.0039	0.0032	0.0030	0.0033	
16	Projected SC Retail Sales kWh (w/solar)	Exhibit 7	1,638,459,843	1,585,877,239	1,667,483,467	1,974,617,626	2,128,080,693	2,000,106,817	21,429,956,916
17	SC DERP Avoided Costs	Line 15 / 100 * Line 16	\$ 66,459	\$ 65,933	\$ 64,722	\$ 63,809	\$ 64,383	\$ 65,588	\$ 751,727
	<b>SC DERP Avoided Cost Allocated on Firm CP kW's</b>								
18	Residential	Total Line 17 * Line 1							\$ 307,469
19	General Service / Lighting	Total Line 17 * Line 2							\$ 212,793
20	Industrial	Total Line 17 * Line 3							\$ 231,465
21	Total SC	Sum Lines 18 through 20							\$ 751,727
	<b>Projected SC Retail Sales kWh (October 2020 - September 2021)</b>								
22	Residential	Exhibit 7							6,718,693,456
23	General Service / Lighting	Exhibit 7							5,885,428,337
24	Industrial	Exhibit 7							8,825,835,123
25	Total SC	Sum Lines 22 through 24							21,429,956,916
	<b>SC DERP Avoided Cost ¢/kWh</b>								
26	Residential	Line 18 / Line 22 * 100							<b>0.0046</b>
27	General Service / Lighting	Line 19 / Line 23 * 100							<b>0.0036</b>
28	Industrial	Line 20 / Line 24 * 100							<b>0.0026</b>

Note: Totals may not add due to rounding